GRAY NOTEBOOK #22 PRESENTATION

BRIEFING PAPER Prepared for the August 2006 Commission Meeting

Prepared by: Katherine Boyd, for Daniela Bremmer, Director of Strategic Assessment

PURPOSE:

Presentation of the agency's quarterly performance report, the *Gray Notebook*, for the quarter ending June 30, 2006.

ACTION/OUTCOME:

Commission review of agency performance on project delivery (*Gray Notebook Beige Pages*) and several annual and quarterly performance reports. After Commission review, the latest edition will be printed and distributed to internal and external audiences.

BACKGROUND:

The purpose of the *Gray Notebook* is to report the agency's performance and accountability results for review by the Transportation Commission and others.

DISCUSSION:

Topic

Presentation and discussion of agency's performance results as reported in the *Gray Notebook* for the quarter ending June 30, 2006.

Total time: approximately 115 minutes.

Presenter

| Highway Safety | Pat Morin, Systems Analysis and Priority Programming Manager The Control of the |
|---------------------------------|--|
| | Ted Trepanier, State Traffic Engineer |
| Worker Safety | Chris Christopher, State Maintenance Engineer |
| | Joel Amos, Safety and Health Administrator |
| Capital Facilities | Anna Crickmer, Acting Facilities Administrator |
| Annual Update | Thanh Nguyen, Facility Planning and Delivery Manager |
| Environmental | Megan White, Director, Environmental Services Office |
| | Linda Pierce, State Pavement Engineer |
| Benchmarks | Katherine Boyd, Assistant Gray Notebook Production Manager |
| Project Delivery Beige Pages | Keith Metcalf, Director, Project Control and Reporting |

RECOMMENDATION:

Staff recommends that the Commission review performance information and provide feedback to agency management.

For further information, please contact Kimberly Howard, *Gray Notebook* Production Manager, 360-705-7970.



Measures, Markers and Mileposts

The Gray Notebook for the quarter ending June 30, 2006

Douglas B. MacDonald Secretary of Transportation









What Gets Measured, Gets Managed

This periodic report is prepared by WSDOT staff to track a variety of performance and accountability measures for review by the Transportation Commission and others. The content and format of this report is expected to develop over time. Information is reported on a preliminary basis as appropriate and available for internal

management use and is subject to correction and clarification. The *Gray Notebook* is published quarterly in February, May, August, and November. For an online version of this or a previous edition of the *Gray Notebook*, visit www.wsdot.wa.gov/accountability.

| Contributors (Beige Pages) | WSDOT's Capital Delivery Programs | Project Control and Reporting Office, Claudia Lindhal, Regional Program Managers | | | |
|----------------------------|--|--|--|--|--|
| | Tacoma Narrows Bridge Project Update | Miles Sergeant | | | |
| | Hood Canal Bridge Project Update | Becky Hixson | | | |
| | Cross-Cutting Management Issues | John Anderson, Craig Broadhead, Jennifer Brown, Erin Britton, Kevin Dayton, Dave Erickson, Jenna Fettig, Lee Hughes, Mike Palazzo, Project Control and Reporting Office, Tom Swafford, Carl Ward | | | |
| Contributors | Worker Safety | Joel Amos, Cathy English, Laura Merritt, Ferry Safety Office | | | |
| (White Pages) | Workforce Level and Training | Dave Acree, Adrienne Saunders, David Supensky, Stewart Souders | | | |
| | Construction Contracts | Jennifer Brown, Kevin Dayton, Dave Erickson, Jenna Fettig, David Jones | | | |
| | Highway Safety: Annual Update | Dick Albin, Dan Davis, Matthew Enders, Roger Horton, Pat Morin, Ted Trepanier, Brian Walsh, Anna Yamada | | | |
| | Asset Management: Capital Facilities | Anna Crickmer, Thanh Nguyen, Ron Moorehead, Sharon Ray. Dennis Tate | | | |
| | Environmental: Annual Update | Jon Peterson, Linda Pierce, Gregor Myhr, Mia Waters | | | |
| | Intelligent Transportation Systems | Bill Legg | | | |
| | Incident Response | Diane McGuerty, Anna Yamada | | | |
| | Travel Information | Jeremy Bertrand, Eldon Jacobson, Diane McGuerty | | | |
| | Washington State Ferries | David Burns, Bill Greene | | | |
| | Rail: State-Supported Amtrak Cascades and Washington Grain Train | Kirk Fredrickson, Barbara Ivanov, Carolyn Simmonds, A Rowswell | | | |
| | Benchmarks | Tonia Buell, Dave Bushnell, Keith Cotton, Dan Davis, Dave Giles Daren Guyant, Mike Harbour (WSTA), Roger Horton, Linda Pierce Evan Olsen, Cathy Silins, Ted Trepanier, Pat Whitaker, DeWayne Wilson, Marcy Yates | | | |
| | Special Feature: Portable Incident Screens | Al Gilson, Rick Phillips, Harold White | | | |
| | Highlights of Program Activities | Ann Briggs | | | |
| GNB Production | Production Team | Kimberly Howard, Katherine Boyd, James Bryan, Kristina Kernan Laura Wood | | | |
| | Graphics | Steve Riddle, Connie Rus, Chris Zodrow | | | |
| | Publishing & Distribution | Linda Pasta, Trudi Phillips, Dale Sturdevant, Deb Webb | | | |
| | For Information Contact: | Daniela Bremmer, Director WSDOT Strategic Assessment Office 310 Maple Park Avenue SE PO Box 47374 Olympia, WA 98504-7374 Phone: 360-705-7953 E-mail: bremmed@wsdot.wa.gov | | | |

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Special Report: Hood Canal Bridge, Quarterly

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Permitting, And Compliance

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Navigating the Gray Notebook

How is the Gray Notebook Organized?

Measures, Markers and Mileposts, also called the Gray Notebook, provides in-depth reviews of agency and transportation system performance. The report is organized into two main sections. The Beige Pages report on the delivery of the projects funded in the 2003 Transportation Funding Package, 2005 Transportation Funding Package, and Pre-Existing Funds. The White Pages describe key agency functions and provide regularly updated system and program performance information. The Gray Notebook is published quarterly in February, May, August and November. This edition and all past editions are available on-line at www.wsdot.wa.gov/accountability/default.htm

A separate detailed navigation folio is available at www.wsdot. wa.gov/publications/folio/GNBFolio.pdf

Beige Pages

The *Beige Pages* is WSDOT's project delivery performance report on the Nickel, Transportation Partnership Account, and Pre-Exisiting Funds project programs. It contains detailed narrative project summaries and financial information supporting WSDOT's "no surprises" reporting focus. See page one for details.

White Pages

The *White Pages* contain three types of transportation system and agency program performance updates:

Annual Performance Topics

System performance updates are rotated over four quarters based on data availability and relevant data cycles. Annual updates provide in-depth analysis of topics and associated issues. Examples include Pavement Condition, Congestion, and Bridge Condition.

Quarterly Performance Topics

Quarterly topics are featured in each edition since data is generally available more frequently. Quarterly topics include Worker Safety, Incident Response, Washington State Ferries, and Amtrak *Cascades*.

Special Topics

Selected Special Features and Program Highlights are provided in the back of each edition and focus on noteworthy items, special events, and innovations.

Tracking Business Directions' Results

WSDOT's business plan, *Business Directions*, outlines the agency's strategic initiatives and associated activities. It reflects WSDOT's program and project delivery responsibilities with the goal of demonstrating the best possible return for taxpayers' dollars. The *Gray Notebook* complements the plan

and tracks progress of the six key initiatives. For a copy of *Business Directions*, please visit www.wsdot.wa.gov/accountability/publications/StrategicPlanDraft.pdf.

Gray Notebook Lite

WSDOT publishes a quarterly excerpt of key performance topics and project delivery summaries from the *Gray Notebook*, called *Gray Notebook Lite*. *Lite* allows for a quick review and provides a short synopsis of selected topics. It is published as



a four page folio with a two page *Beige Page* summary insert and can be accessed at www.wsdot.wa.gov/accountability/graynotebook/Lite.pdf

How to Find Performance Information

The electronic subject index gives readers access to current and archived performance information. The comprehensive index is easy to use and instantly links to every performance measure published to date. Measures are organized alphabetically within program areas. A click on the subject topic and edition number provides a direct link to that page. A copy of the subject index is also provided in the back of each edition. To access the index electronically, visit www.wsdot.wa.gov/accountability/graybookindex.htm



Linking Measures to Strategic Objectives

The mission of WSDOT is to keep people and business moving by operating and improving the state's transportation systems vital to our taxpayers and communities.

Introduction

WSDOT's Business Directions (2007-11) is the draft summary of WSDOT's work plan based on the programs and budgets authorized by the State Legislature and the policies adopted by the Governor. The plan describes the agency strategic directions and initiatives that are part of WSDOT's program and service delivery mandates. The plan also reflects WSDOT's internal performance management needs, Priorities of Government (POG) responsibilities, the Government Management and Accountability Performance (GMAP) process, the Governor's draft Results and Action Plan, the Legislative Transportation Benchmarks, the draft OFM Budget Activities, and the Washington State Transportation Plan's current draft investment priorities.

WSDOT has important transportation system needs to meet through its day-to-day work to build and operate state highways, manage the ferry system, and implement legislative instructions and program mandates. Everything comes together, however, in demonstrating the best possible return for every dollar of taxpayer investments and legislative appropriation. The *Gray Notebook* reflects this direction for accountability, communicating performance results for all key agency programs and activities.

Priorities of Government and Government Management Accountability and Performance

"Priorities of Government" (POG) is the statewide approach used by the Governor to identify results as the basis for budget decision-making. This approach facilitates strategic thinking

and uses performance evidence to make investment choices that maximize results. POG looks at all state activities and how these activities contribute to the framework for the ten statewide results that citizens expect. WSDOT's GMAP forums support the POG process by evaluating and improving the effectiveness of POG activities and reporting its progress in the *Gray Notebook*. The agency's draft strategic plan (2007-11 Business Directions draft) supports the "Improve statewide mobility of people, goods, and services" POG.

WSDOT's Strategic Plan

WSDOT's actively supports POG goals through the agency's six initiatives (objectives), defined in the agency's draft strategic plan (2007-11 Business Directions). By tracking the progress of WSDOT's initiatives with key performance measures, the *Gray Notebook* connects WSDOT's initiatives with statewide outcome goals. The table below shows the six WSDOT initiatives and key related performance measures, as well as where and how the results are reported. Some of the data is available annually, such as bridge and pavement conditions, while other data is available quarterly. The reporting cycles for the individual measures reflect this. WSDOT's draft strategic plan is available at www.wsdot.wa.gov/accountability/publications/ StrategicPlanDraft.pdf.

| Strategic Initiative | Performance Measure Key Measures Include | Description | Reporting Cycle | Last Report¹ |
|---|---|--|--------------------|---------------------|
| 1. Manage and operate state trans- portation facilities to improve the safety and reliability of state trans- portation systems for the benefit of travelers, shippers, and commu- nities. | Safety | Fatality rates (Vehicle, bicyclists, pedestrian) | Annual | GNB 20 pp. 54-55 |
| | Incident Response Clearance | Number of responses and overall clearance time | Quarterly | pp. XX |
| | Congestion: Peak Travel Times for Key Commute Routes | Percent of change in travel time performance for 20 Puget Sound Routes | Annual | GNB 19 p. 58 |
| | On-Time Performance: Amtrak Cascades | Percent of trips on-time | Quarterly | pp. XX |
| | On-Time Performance: Ferries | Percent of trips on-time | Quarterly | pp. XX |

When no *Gray Notebook* edition is indicated above, the measure can be found in this edition of the *Gray Notebook*. Previous editions are available in the *Gray Notebook* Subject Index at www.wsdot.wa.gov/accountability/graybookindex.htm. When viewing this report electronically, edition numbers are hyperlinked to the respective Gray Notebook article.

Linking Measures to Strategic Objectives

| Strategic Initiative | Performance Measure Key Measures Include | Description | Reporting Cycle | Last Report |
|--|---|---|--------------------|------------------|
| 2. Maintain structures, facilities, support systems, and services to optimize their short-term and long-term usefulness and enhance environmental performance in highway and ferry operations. | Maintenance Accountability Process (MAP) targets | Rating for 33 highway maintenance activities | Annual | GNB 19, p. 40 |
| 3. Deliver asset and rehabilitation projects to preserve the state's exist- | Ferry Life Cycle Preservation Performance | Planned projects vs. actual systems/structures preserved, change in cost rating | Quarterly | p. XX |
| ing infrastructure assets and utilize lowest lifecycle approaches to extend | Pavement Conditions | Percent of pavement in good or poor condition (by type) | Annual | GNB 20 p. 37 |
| their useful life. | Bridge Conditions | Percent of bridges in good, fair, or poor condition | Annual | GNB 19 p. 50 |
| 4. Deliver high quality capital projects that add to and improve the state's transportation systems on-time and | Schedule, Scope and Budget Summary of Nickel and TPA Projects | Planned vs. actual results of scope, schedule and budget | Quarterly | pp. XX |
| on-budget. | Highway Congestion Report | Planned vs. actual number of projects achieved | Quarterly | pp. XX |
| 5. Communicate transportation system performance and WSDOT | Project Delivery Milestone Reporting | Compare planned delivery milestone dates against actual completion dates | Quarterly | pp. XX |
| agency performance to the public through clear and consistent project | Cash Flow on Highway Construction Projects | Planned vs. actual expenditures for preservation and improvement programs | Quarterly | pp. XX |
| delivery and program management reporting. | Individual Contracts: Final Cost to Award Amount | Percent of final cost above or below award | Annual | GNB 22 pp. |
| | End of Season Highway Construction Summary | Design, construction management, schedule, and cost evaluation | Annual | GNB 20 p. 24 |
| | No Surprises Reporting - Beige Pages | Reporting on capital program delivery | Quarterly | pp. XX |
| | Performance Reporting | Gray Notebook, web pages | Quarterly | |
| 6. Assure the capability, efficiency, | Workforce Training | Compliance ratings for 17 training courses | Quarterly | pp. XX |
| and safety of WSDOT's workforce. | Workforce Safety | Recordable injuries per 100 workers per calendar year | Quarterly | pp. XX |

When no *Gray Notebook* edition is indicated above, the measure can be found in this edition of the *Gray Notebook*. Previous editions are available in the *Gray Notebook* Subject Index at www.wsdot.wa.gov/accountability/graybookindex.htm. When viewing this report electronically, edition numbers are hyperlinked to the respective Gray Notebook article.

Transportation Benchmarks

In 2002, the Legislature passed RCW 47.01.012, instituting the transportation benchmarks recommended in 2000 by the Governor-appointed Blue Ribbon Commission on Transportation. The benchmarks require WSDOT to track data related to nine policy elements (see list below).

The benchmarks attempt to track transportation performance at a high level, reflecting social goals that are important to the health and safety of Washington State citizens, and to the efficiency of our state's transportation system. WSDOT does not have control over some of these benchmarks, for instance, the number of people who travel alone to work, or the number of miles they drive. However, WSDOT can and does strive to support various methods to reach their destination. Similarly, WSDOT works for citizens to meet their transportation needs by improving roadway, bridge, congestion, and safety conditions. The benchmark report is updated and published annually in the *Gray Notebook*.

SafetyRoadway Pavement Condition

Bridge Condition

- Non-Auto Share of Commute Trips
- Per Capita Vehicle Miles Traveled
- Administrative Efficiency
- Traffic Congestion and Driver Delay
- Transit Cost Efficiency

Information regarding Benchmarks can be found at:

Gray Notebook Special Excerpt: Transportation Benchmarks 2005 Report: www.wsdot. wa.gov/accountability/benchmarks/default.htm

Annual Transportation Benchmarks Report: June 30, 2005 GNB, www.wsdot.wa.gov/accountability/Archives/graynotebookJun-05.pdf

Benchmarks Implementation Report: www.wsdot.wa.gov/accountability/benchmarks/BenchmarksImplementationReport.pdf

Project Reporting on the Capital Project Delivery Program

Introduction

WSDOT prepares information for legislators, state and local officials, interested citizens and the press on the progress of the capital delivery program, including the 2003 Transportation Funding Package, the 2005 Transportation Funding Package, and the Pre-Existing Funds Program. Much of the detailed information can be found on-line at the WSDOT website. The *Gray Notebook*, in these special *Beige Pages*, highlights each quarter's progress and reports on financial and other program management topics as well as detailed information on key projects.

The *Beige Pages* for this quarter are organized in the following manner:

- Overview of the Three Capital Delivery Mandates
- 2003 and 2005 Transportation Funding Package Project Delivery
- Financial Information
- Pre-Existing Funds
- Special Project Updates
- Cross-Cutting Management Issues

We welcome suggestions and questions that can help us strengthen this project delivery and accountability reporting.

Overall, WSDOT's project reporting uses several different tools, including the *Gray Notebook*, web-based Project Pages, and Quarterly Project Reports (QPRs). There is a Project Page on the website for each major WSDOT project, and QPRs for Nickel funded projects in the 2003 Transportation Funding Package.

Navigation to the Home Page and the Project Pages

The Home Page (shown below) has several links that allow access to the individual Project Pages. The Accountability navigation bar provides access to the on-line version of the *Gray Notebook* which provides some project "hot links." The Projects navigation bar provides direct links to several of the state's largest projects and access to WSDOT's Projects Page. The Projects Page can also be accessed from any WSDOT web page by clicking on the "projects" tab at the top of every page. WSDOT's home page can be found at www.wsdot.wa.gov/.

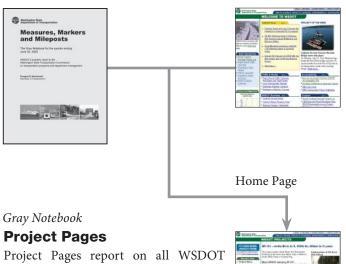


While WSDOT has developed user-friendly reports and front end applications to access project information on-line, it is important to note that the data used to generate these reports comes from antiquated legacy mainframe computer systems. Although the quality of the data is good, the time and effort needed to compile, verify and validate the data in these reports each quarter is considerable (in other words, these reports are the result of much manual input and effort, not the output of a modern project management information system).

This overall issue was addressed in two recently completed reports: one from the Joint Legislative Audit Review Committee titled, "Overview of Washington State Department of Transportation Capital Project Management" and a second report, commissioned by the Transportation Performance Audit Board, titled "Review of WSDOT's Use of Performance Measurement." In each of these reports, a key recommendation was made to conduct an assessment of the effectiveness of current information systems and options for addressing any deficiencies.

Project Reporting on the Capital Project Delivery Program

Project Information Roadmap



Project Pages report on all WSDOT capital delivery program projects. Project Pages provide detailed information updated regularly:

- Overall Project Vision
- Financial Table, Funding Components
- Roll-up Milestones
- Roll-up Cash Flow, Contact Information
- Maps and Links QPR
- Quarterly Project Reports

Quarterly Project Reports (QPRs) summarize quarterly activities:

- Highlights
- Milestones
- Status Description
- Problem Statement
- Risks and Challenges
- Project Costs/Cash Flow
- Contact Information

Project Pages

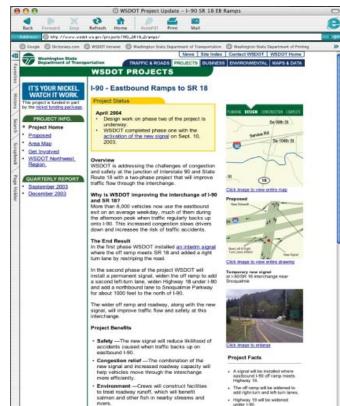
Project Pages contain information on all aspects of a specific project. An existing Project Page is shown below.

Project Pages provide details on overall project vision, funding components, financial tables, milestones, status description, problem discussions, risks and challenges, forecasting, maps, photos, links and more.

The Quarterly Project Reports are accessible through a link on the Project Page.

Project Pages provide a summary of the project status to date and are updated regularly to the best of WSDOT's ability.

Project Pages can be found at www.wsdot.wa.gov/projects/



WSDOT's Capital Project Delivery Programs

Preliminary Data - Subject to Verification

Executive Summary:Roll-Up of Performance Information

Each quarter WSDOT provides a detailed update on the delivery of the highway capital programs through the *Gray Notebook*, and via the web through the Project Pages and Quarterly Project Reports. As WSDOT's primary delivery report, the *Gray Notebook* includes the *Beige Pages* for the purpose of providing the current status of the Capital Improvement and Preservation Programs, major Pre-Existing Fund (PEF) projects, the projects funded by the 2003 5-cent gas tax (Nickel), and the 2005 9 1/2-cent gas tax (Transportation Partnership Account, TPA).

Since PEF projects are budgeted by program for improvement and preservation of the highway system, the delivery of the work included in the 923 PEF projects is reported by programmatically for six categories of work. By contrast, each of the 145 Nickel and 178 TPA projects funded in the 2005-07 biennium has a line item budget and is monitored and reported at the individual project level. Note that these numbers have been updated from the previous *Gray Notebook* based on the 2006 Supplemental Budget.

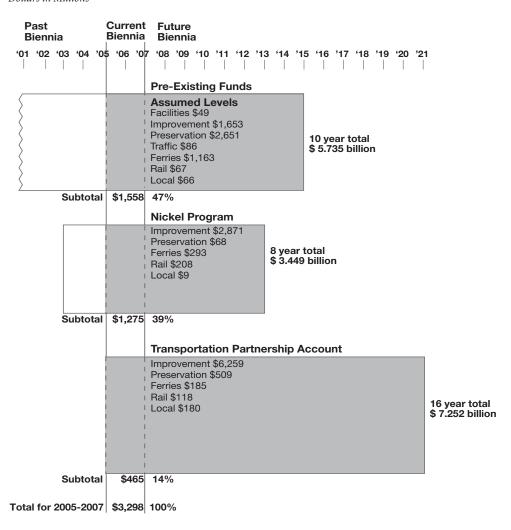
| Performance Information As of June 30, 2006, Dollars in Thousands | Nickel (2003) | Transportation Partnership Account (TPA, 2005) | Combined Nickel & TPA | Pre-Existing Funds |
|--|----------------------|--|-----------------------------------|------------------------|
| Total Biennial Number of Projects (2005-07) | XXX | XXX | XXX | XXX |
| Total Biennial Program (2005-07) | \$X,XXX,XXX | \$XXX,XXX | \$X,XXX,XXX | \$X,XXX,XXX |
| Schedule, Scope and Budget Summary: Resul | ts of Completed Pro | jects | | |
| | See Pages 3-4 | See Pages 3-4 | See Pages 3-4 | NA |
| Cumulative to Date, 2003 – June 30, 2006 | •••• | | | |
| Total Completed | 23 | 12 | 35 | - |
| % Completed Early or On-Time | 96% | 100% | 97% | - |
| % Completed Within Scope | 100% | 100% | 100% | - |
| % Completed Under or On-Budget | 91% | 100% | 94% | - |
| Current Legislative Expectation (Baseline) | \$249,158 | \$5,009 | \$254,167 | - |
| Current Estimated Cost to Complete (WSDOT) | \$249,154 | \$5,009 | \$254,163 | - |
| Biennium to Date, 2005-07 | | | | |
| Total Completed | XX | Χ | XX | XXX |
| % Completed Early or On-Time | 80% | 83% | 82% | - |
| % Completed Within Scope | 100% | 100% | 100% | - |
| % Completed Under or On-Budget | 100% | 100% | 100% | - |
| Current Legislative Expectation (Baseline) | \$132,403 | \$5,009 | \$137,412 | \$XXX,XXX |
| Current Estimated Cost to Complete (WSDOT) | \$132,294 | \$5,009 | \$137,303 | \$XXX,XXX |
| Advertisement Record: Results of Projects En | tering into the Cons | truction Phase | | |
| | See Pages 5-6 | See Pages 5-6 | See Pages 5-6 | See Page 24 |
| Biennium to Date, 2005-07 | | | | |
| Total Advertised | 10 | 12 | 22 | XXX |
| % Advertised Early or On-Time | 59% | 71% | 63% | XX% |
| Total Award Amounts to Date | \$139,160 | \$9,415 (1 pending award) | \$148,575 (1 pending award) | NA |
| Advertisement Schedule for Projects in the Pip Results of Projects Now Being Advertised for | | nned to be Advertised | | |
| | See Page 7 | See Page 7 | See Page 7 | See Page 22 (graph) |
| July 1, 2006 through December 31, 2006 | | | | |
| Total in Pipeline | 9 | 16 | 25 | 172 |
| % On or Better than Schedule | 89% | 94% | 92% | 77% |

WSDOT's Capital Project Delivery Programs

Overview of WSDOT's Three Capital Project Delivery Mandates

WSDOT's Capital Program: Current and Future Biennium Outlook 2006 Supplemental Budget

Dollars in Millions



2005-07 Capital Delivery Program

The Department's 2005-07 capital program focuses on project and program delivery from all fund sources. WSDOT continues to move forward with the 10-year investment plan for the 2003 Transportation Funding Package as well as beginning the 16-year investment plan associated with the 2005 Transportation Funding Package.

In the 2005-07 biennium, based on the 2006 supplemental budget, capital funds total approximately \$3.3 billion. Approximately \$1.275 billion will be spent on projects associated with the 2003 Funding Package (Nickel), \$465 million will be invested in projects from the 2005 Funding Package (Transportation Partnership Account), and \$1.558 billion will be invested from pre-existing funding sources.

WSDOT's Capital Project Delivery Programs

Preliminary Data - Subject to Verification

Schedule, Scope and Budget Summary

Thirty-Five Projects Completed as of June 30, 2006

Nickel and Transportation Partnership Account (TPA) Projects Dollars in Thousands

| | Fund | On-Time | On-Time | Within | Current Legislative Expectation | Current Estimated Cost to Complete | On- |
|---|--------------|----------------------|--------------------------------|----------|---------------------------------------|---|------------------------------|
| Project Description | Type* | Advertised | Completed | Scope | (Baseline) | (WSDOT) | Budget** |
| Cumulative to Date | 10 | 7 1 | 0 1 | 10 | 440.754 | 110 001 | 4 - 1 - 7 |
| 2003-05 Biennium Summary¹ See the <i>Gray Notebook</i> for quarter ending December 31, 2005 for project listing | 13 Nickel | 7 early 6 on-time | 9 early 3 on-time 1 late | 13 | 116,754 | 116,861 | 4 under, 7 on-budget, 2 over |
| Biennium to Date (2005-07) | | | | | | | |
| I-5/NE 175th St to NE 205th St NB Auxilliary Lane | Nickel | ✓ | Early | ✓ | 8,915 | 8,915 | ✓ |
| I-5/300th St NW Vic. to Anderson Rd Vic. | TPA | Early | Early | ✓ | 1,288 | 1,345 | ✓ |
| I-5/2nd Street Bridge - Replace Bridge | Nickel | ✓ | Early | √ | 14,333 | 14,412 | ✓ |
| I-5/Blaine Vic Median Cross Over Protection | TPA | ✓ | Early | ✓ | 245 | 245 | ✓ |
| I-5 Roanoke Vicinity Noise Wall | Nickel | ✓ | Late ² | ✓ | 3,764 | 3,764 | ✓ |
| US 12/SR 124 to McNary Pool - Add Lanes | Nickel | ✓ | ✓ | ✓ | 12,299 | 12,196 | ✓ |
| SR 18/SE 304th to SR 516 - Median Cross Over Protection | TPA | Early | Early | ✓ | 250 | 250 | ✓ |
| I-90/Silica Road to East of Adams Rd - Median Cross Over Protection | TPA | Early | Early | ✓ | 322 | 322 | ✓ |
| I-90/SR 17 to Grant/Adams County Line - Median Cross Over Protection | TPA | Early | Early | ✓ | 787 | 787 | ✓ |
| I-90/Pines Rd to SUllivan Rd - Widen Roadway and Add Lanes | Nickel | Early | ✓ | ✓ | 17,894 | 17,894 | ✓ |
| I-90/Argonne Road to Pines Rd - Widen Roadway and Add Lanes | Nickel | Early | ✓ | ✓ | 18,468 | 18,357 | ✓ |
| SR 106/Skobob Creek - Fish Passage | Nickel | ✓ | ✓ | ✓ | 1,777 | 1,777 | ✓ |
| SR 161/204th St to 176th St - Widening | Nickel | Late ³ | Early | ✓ | 16,789 | 16,789 | ✓ |
| SR 161/234th St to 204th St E - Widening | Nickel | ✓ | Early | ✓ | 17,231 | 17,231 | ✓ |
| SR 167/SR 410 to Pierce/King County Line - Median Cross Over Protection | TPA | Early | √ | ✓ | 487 | 487 | ✓ |
| SR 410/Traffic Ave to 166th Ave East - Median Cross Over Protection | TPA | Early | ✓ | ✓ | 245 | 245 | ✓ |
| SR 522/N Creek Vic. to Bear Creek Vic. | TPA | Early | Early | ✓ | 271 | 271 | ✓ |
| | | | | | | | |

NOTE: Table and footnotes continues on following page

^{*}As established by the 2005 Legislative Evaluation and Accountability Program (LEAP) committee. However, dollars shown are for all fund types, not just Nickel or Transportation Partnership Account funds.
**Based on cost at operationally complete stage; will be updated based on final contract close-out cost, to be reported in future quarters.

WSDOT's Capital Project

Delivery Programs

Preliminary Data - Subject to Verification

Schedule, Scope and Budget Summary

Thirty-Five Projects Completed as of June 30, 2006 (Continued)

Nickel and Transportation Partnership Account (TPA) Projects Dollars in Thousands

| Project Description | Fund Type* | On-Time Advertised | On-Time Completed | Within Scope | Current Legislative Expectation (Baseline) | Current Estimated Cost to Complete (WSDOT) | On- Budget** |
|---|---------------|-----------------------|----------------------|-----------------|---|--|-----------------|
| Current Quarter (Ending June 30, 2006) | | | | | | | |
| I-5/SR 11 Vicinity to Weigh Station Vicinity | TPA | Early | Early | ✓ | 436 | 436 | ✓ |
| I-5/SR 11 to 36th Street - Median Cross Over Protection | TPA | Early | Early | ✓ | 68 | 68 | ✓ |
| I-5/SR 542 Vicinity to Bakerview Road | TPA | Early | Early | ✓ | 202 | 202 | ✓ |
| I-5/Main Street to SR 548 - Median Cross Over Protection | TPA | Early | Early | ✓ | 409 | 409 | ✓ |
| SR 527/132nd St SE to 112th St SE | Nickel | ✓ | Late ⁴ | ✓ | 20,933 | 20,959 | \checkmark |
| Totals Current Quarter (June 30, 200 | 6) | 100% | 80% | 100% | \$22,047 | \$22,074 | 100% |
| 1 Nickel Project | | 100% | 0% | 100% | \$20,933 | \$20,959 | 100% |
| 4 TPA Projects | | 100% | 100% | 100% | \$1,114 | \$1,114 | 100% |
| Totals Biennium to Date (2005-07) | | 95% | 91% | 100% | \$137,412 | \$137,361 | 100% |
| 10 Nickel Projects | | 90% | 80% | 100% | \$132,403 | \$132,295 | 100% |
| 12 TPA Projects | | 100% | 100% | 100% | \$5,009 | \$5,066 | 100% |
| Totals Cumulative to Date** | | 97% | 91% | 100% | \$254,167 | \$254,221 | 94% |
| 23 Nickel Projects | | 96% | 87% | 100% | \$249,158 | \$249,155 | 91% |
| 12 TPA Projects | | 100% | 100% | 100% | \$5,009 | \$5,066 | 100% |
| | | | | | | | |

Source: WSDOT Project Control and Reporting Office

Definitions:

On-Time Advertised

The project was advertised within the quarter as planned based on the original Legislative expectation (2003-05 Nickel, 2005-07 TPA).

On-Time Completed

The project was operationally complete within the quarter as planned in the original Legislative expectation (2003-05 Nickel, 2005-07 TPA).

Within Scope

The project was completed within the specific functional intent of a project as last approved by the Legislature.

On-Budget

The project was within +/- five percent of the current Legislative expectation (baseline).

Section 603 of the 2006 Supplemental Budget provides the Director of the Office of Financial Management flexibility to balance Nickel and TPA funded project cost increases and decreases between projects, and to balance cash flow between biennia near biennial lines, as long as the adjustment does not impact the overall delivery of the program and does not involve changing the scope of any funded project.

Project Details:

¹ Differences in this quarter versus the March 31, 2006 *Gray Notebook* for 2003 - 05 Biennium Summary are due to two projects being reported incorrectly. SR 18/Covington Way to Maple Valley was reported in the March 31, 2006 edition as in construction when in fact the roadway work was complete and the project operationally complete in September 2003. The award amount for this project is reported in the March 31, 2006 report as \$3.071 million, but that amount reflects only the roadside restoration costs. Costs for the roadway were \$69 million. Data for this project has been added to this line.

I-5/Roanoke Vicinity Noise Wall was completed in the current biennium but reported as completed in the March 31, 2006 *Gray Notebook* 2003-05 biennium data. Data for this project has been removed from this line and moved to the current biennium project list.

^{*}Based on cost at operationally complete stage; will be updated based on final contract close-out cost, to be reported in future quarters.

^{**}No Transportation Partnership Account projects were complete prior to the 2005-07 biennium, therefore, cumulative to date totals are the same as biennium to date..

² Need an explanation for late completion.

³ This project was the second of a two-stage project. The advertisement date was delayed to better accomodate construction work and lessen impacts to the public.

⁴Why does this say "late?" GNB 21 shows operationally complete date as June 2006.

WSDOT's Capital Project Delivery Programs **Preliminary Data - Subject to Verification**

Advertisement Record

Forty-One Projects Now in Construction Phase as of June 30, 2006

Nickel Program and Transportation Partnership Account (TPA) Projects Dollars in Thousands

| Project Description | Fund Type* | On-Time Adver- tised | Ad Date | Contractor | Operationally Complete Date | Award Amount |
|---|---------------|----------------------------|------------------|----------------------------------|-----------------------------------|-----------------|
| Cumulative to Date | 1,700 | liou | 7 tu Date | Contractor | Dato | 7 iii Guin |
| I-5/Pierce Co Line to Tukwila i/C- HOV | Nickel | Early | Nov-04 | Icon Materials | May-07 | 35,847 |
| I-5/SR 526 to Marine View Drive | Nickel | Early | Nov-04 | Atkinson | Jun-09 | 184,993 |
| I-5/S 48th to Pacific Avenue - Core HOV | Nickel | Early | Mar-05 | Kiewit Pacific | Jun-08 | 72,869 |
| I-5/Salmon Creek to I-205 - Widening | Nickel | Early | May-03 | Hamilton Construction | Jun-07 | 25,921 |
| SR 7/SR 507 to SR 512 - Safety | Nickel | Late ¹ | May-05 | Scarsella Bros | Apr-07 | 13,745 |
| SR 9/SR 522 to 228th St SE - Widening | Nickel | Late ¹ | May-05 | Wilder | Jun-07 | 17,993 |
| SR 9/228th St SE to 212th St SE(SR 524) Widen to Five Lanes, Stg 2 | Nickel | Late ¹ | For constructio | n efficiencies, this project was | s combined with the | e one above |
| SR 16/I-5 to Tacoma Narrows Bridge - HOV | Nickel | Early | Mar-04 | Tri-State | Jun-07 | 47,295 |
| SR 16/36th St to Olympic Dr NW, Core HOV | Nickel | Early | Nov-04 | Woodworth & Company | Dec-07 | 3,876 |
| SR 24/I-82 to Keys Road | Nickel | Early | Feb-05 | Max J. Kuney | Nov-06 | 33,964 |
| SR 31/Metaline Falls to Int'l Border | Nickel | ✓ | Sep-04 | M. A. Deatley | Oct-06 | 10,989 |
| SR 104/Hood Canal Bridge East Half | TPA | ✓ | Feb-03 | Kiewit-General | Jun-09 | 204,000 |
| SR 161/Jovita Blvd to S 360th St | Nickel | \checkmark | Sep-04 | Tri-State | Jan-07 | 16,300 |
| SR 240/I-182 to Richland Y - Add Lanes | Nickel | ✓ | Dec-04 | Icon Materials | Oct-07 | 30,473 |
| SR 240/Richland Y to Columbia Center I/C Add Lanes | Nickel | ✓ | For construction | n efficiencies, this project was | combined with the | e one above |
| SR 395/NSC-Francis Ave to Farwell Rd | Nickel | Late ² | Jan-04 | Max J. Kuney | Mar-09 | 4,976 |
| Biennium to Date (2005-07) | | | | | | |
| SR 3/SR 303 I/C(Waaga Way) - New Ramp | Nickel | Late ¹ | Aug-05 | Scarsella Bros. | Sep-07 | 16,744 |
| I-5/52nd Ave W. to SR 526 - SB Safety | Nickel | ✓ | Mar-06 | Wilder | Oct-06 | 5,710 |
| I-5/SR 532 Northbound I/C Ramps | Nickel | ✓ | Mar-06 | Trimaxx | Nov-07 | 3,769 |
| I-5/SB Ramps at SR 11/Old Fairhaven Parkway | Nickel | ✓ | Feb-06 | Wilder | Mar-07 | 1,320 |
| SR 9/Nooksack Rd Vicinity to Cherry St | Nickel | Late ² | Dec-05 | Imco General | Oct-07 | 8,999 |
| US12/Vicinity Montesano to Elma - Median Cross Over Protection | TPA | ✓ | Mar-06 | Petersen Brothers | Jun-07 | 1,459 |
| U.S. 12/Attalia Vicinity - Add Lanes | Nickel | ✓ | Dec-05 | Apollo | Dec-07 | 11,222 |
| I-90/Eastbound Ramps to SR 18 - Signal | Nickel | Early | Mar-06 | KLB | Apr-08 | 2,599 |
| I-90/Moses Lake Area - Bridge Clearance | Nickel | ✓ | Nov-05 | Weaver | Dec-06 | 2,701 |
| I-90/Potato Hill Bridge Bicycle and Pedestrian Bridge | TPA | ✓ | For construction | n efficiencies, this project was | combined with the | one above. |

^{*}As established by the 2005 Legislative Evaluation and Accountability Program (LEAP) Committee. However, dollars shown are for all fund types, not just Nickel or Transportation Partnership Account funds

WSDOT's Capital Project Delivery Programs

Preliminary Data - Subject to Verification

Advertisement Record

Forty-One Projects Now in Construction Phase as of June 30, 2006

Nickel Program and Transportation Partnership Account (TPA) Projects Dollars in Thousands

| Project Description | Fund Type* | On-Time Adver- tised | Ad Date | Contractor | Operationally Complete Date | Award Amount |
|--|---------------|----------------------------|---------|--------------------------------|-----------------------------------|--------------------|
| SR 167/Ellingson Rd Interchange NB Off Ramp | Nickel | ✓ | Feb-06 | Signal Electric Inc. | Mar-07 | 357 |
| SR 167/15th St SW to 15th St NW - HOV | Nickel | Late ³ | Dec-05 | Icon Materials | Dec-07 | 27,849 |
| SR 202/244th Avenue NE Intersection | Nickel | ✓ | Feb-06 | Tri-State | Feb-07 | 463 |
| SR 202/Junction 292nd Ave SE | Nickel | Early | Sep-05 | Transtech | Sep-06 | 293 |
| I-205/Mill Plain SB Off Ramp Improvements | TPA | Early | Mar-06 | Nutter | Jul-06 | 428 |
| SR 270/Pullman to Idaho State Line - Widen Roadway and Add Lanes | Nickel | Late ⁴ | Mar-06 | North Central | Oct-07 | 18,090 |
| SR 516/208th and 209th Ave SE | Nickel | Late ¹ | Jan-06 | Road Construction Northwest | Dec-06 | 678 |
| SR 543/I-5 to International Boundary | Nickel | Late ² | Nov-05 | Imco General | Jun-08 | 28,315 |
| Quarter Ending June 30, 2006 | | | | | | |
| I-5/Ebey Slough Br to Stillaguamish River Br - Install Cable Barrier | Nickel | ✓ | May-06 | Petersen Brothers | Oct-06 | 1,436 |
| SR 16/NW of Tacoma Narrows to SE of Burley/Olalla - Median Cross Over P | TPA | ✓ | May-06 | Petersen Brothers | Aug-07 | 3,508 |
| SR 17/Pioneer Way to Stratford Road - Widen to Four Lanes | TPA | Early | May-06 | Award Pending | Dec-07 | - |
| SR 99/S 284th to S 272nd St - HOV | Nickel | Late? | Apr-06 | SCI Infrastructure | Dec-07 | 8,615 |
| SR 99/SR 599 to Holden Street - Median Cross Over Protection | TPA | Late? | Apr-06 | Petersen Brothers | Oct-07 | 358 |
| SR 522/I-5 to I-405 Multimodal Project | TPA | Late? | May-06 | Wilder | Dec-07 | 960 |
| | | | | | | |
| Totals Current Quarter (June 30, 2006) | | 50% | | | | 14,878 |
| 2 Nickel Project 4 TPA Projects | | 50% 50% | | | | 10,051 4,827 |
| Totals Biennium to Date (2005-07) | | 63% | | | | 145,874 |
| 17 Nickel Projects | | 59% | | | | 139,160 |
| 7 TPA Projects | | 71% | | | | 6,714 |
| Totals Cumulative to Date | | 68% | | | | 849,114 |
| 32 Nickel Projects 8 TPA Projects | | 66% 75% | | | | 638,401 210,714 |

Project Details:

¹Right-of-way and environmental permitting issues

²Right-of-way acquisition delay

³Funding uncertainties caused the design of this project to sit on the shelf for many years. Additional time was needed for redesign and

resubmitting environmental requirements.

⁴The advertisement of this project was delayed due to environmental permitting issues and the need for redesign to stay within budget after geological conditions, right-of-way cost increases, and Corps of Engineers mitigation negotiations.

WSDOT's Capital Project Delivery Programs

Preliminary Data - Subject to Verification

Advertisement Schedule and Budget

Twenty Five (+++I count 26+++) Projects in Delivery Pipeline for July 1, 2006 through December 31, 2006

Nickel and Transportation Partnership Account (TPA) Projects Now Being Advertised for Construction or Planned to be Advertised Dollars in Thousands

| Project Description | Fund Type* | Original Planned Ad Date | Current Planned Ad Date | On Schedule | Current Legislative Expectation (Baseline) | Current Estimated Cost to Complete (WSDOT) |
|---|---------------|--------------------------------|-------------------------------|----------------------|---|--|
| US 2 & SR 92 Roadside Safety Improvement | TPA | Oct-06 | Oct-06 | ✓ ✓ | \$1,200 | \$1,200 |
| SR 3/Imperial Way to Sunnyslope-Safety | TPA | Jan-06 | Nov-06 | Delayed ¹ | 2,893 | 2,893 |
| SR 3/SR 106 S. Belfair Signal-Safety | TPA | Nov-06 | Nov-06 | ✓ | 1,059 | 1,059 |
| I-5/SB Viaduct, S. Seattle Vic-Special Br Repair | TPA | Oct-06 | Oct-06 | \checkmark | 3,991 | 3,991 |
| I-5/SR 502 Interchange | Nickel | Nov-06 | Nov-06 | ✓ | 43,338 | 43,217 |
| SR 9/Schloman Rd to 256th St E | Nickel | Nov-06 | Nov-06 | ✓ | 15,084 | 15,326 |
| SR 9/252nd St NE Vicinity-Rechannelize | Nickel | Nov-06 | Nov-06 | ✓ | 808 | 830 |
| SR9/268th St Intersection | Nickel | Nov-06 | Nov-06 | ✓ | 2,303 | 2,444 |
| US 12/Clemons Rd VicIntersection Improvements | TPA | Nov-06 | Nov-06 | ✓ | 2,711 | 2,717 |
| SR 20/Ducken Road to Rosario Rd | Nickel | Oct-06 | Oct-06 | ✓ | 6,427 | 6,660 |
| SR 20/Quiet Cove Rd Vic to SR 20 Spur | Nickel | Jan-06 | Nov-06 | Delayed ² | 16,920 | 16,920 |
| SR 20/Fredonia to I-5 - Widening | Nickel | Oct-06 | Oct-06 | ✓ | 83,780 | 83,795 |
| SR 20/Winthrop Area - Bike Path | TPA | Oct-06 | Oct-06 | ✓ | 1,241 | 1,241 |
| I-90/Seattle to Mercer IsTwo-Way Transit/ HOV | TPA | Dec-04 | Oct-06 | Delayed ³ | 50,445 | 49,540 |
| I-90 Harvard Rd Pedestrian Overcrossing | TPA | Oct-06 | Oct-06 | ✓ | 332 | 331 |
| US 97/Brewster - Pedestrian Lighting | TPA | Oct-06 | Oct-06 | ✓ | 155 | 155 |
| SR 169/SE 291st St. Vicinity - Safety | TPA | Oct-06 | Oct-06 | ✓ | 2,519 | 2,557 |
| SR 169 at 516 (Four Corners) | TPA | Oct-06 | Oct-06 | ✓ | 2,500 | 2,500 |
| SR 202/Preston-Fall City Road & SR 203 | Nickel | Oct-06 | Oct-06 | ✓ | 2,893 | 3,043 |
| I-405/SE 8th to I-90 (South Bellevue) | Nickel | Jul-07 | Dec-06 | Advanced | 187,980 | 187,980 |
| I-405/NE 10th Street Overcrossing | TPA | Jun-08 | Nov-06 | Advanced | 69,200 | 69,200 |
| SR 823/Goodlander to Harrison Rd Sidewalk Completion | TPA | Oct-06 | Oct-06 | ✓ | 765 | 769 |
| SR 902/Medical Lake Interchange | TPA | Oct-06 | Oct-06 | ✓ | 600 | 700 |
| State Highways in E. Clallam, Jefferson, Kitsap & Mason Co Safety | TPA | Nov-06 | Nov-06 | \checkmark | 2,900 | 2,900 |
| State Highways in Pierce and Thurston Counties - Roadside Safety Imp. | TPA | Nov-06 | Nov-06 | ✓ | 1,000 | 1,000 |
| US 12/Wildcat Cr. to I-82 - Roadside Safety | TPA | Oct-06 | Oct-06 | ✓ | 507 | 466 |

Source: WSDOT Project Control and Reporting Office

Current

^{&#}x27;As established by the 2005 Legislative Evaluation and Accountability Program (LEAP) committee. However, dollars shown are for all fund types, not just Nickel or Transportation Partnership Account funds.

Table and footnotes continued on following page.

WSDOT's Capital Project Delivery Programs Preliminary Data - Subject to Verification

Advertisement Schedule and Budget

Twenty Five (+++I count 26+++) Projects in Delivery Pipeline for July 1, 2006 through December 31, 2006

Nickel and Transportation Partnership Account (TPA) Projects Now Being Advertised for Construction or Planned to be Advertised Dollars in Thousands

| | | | | | Current | Current Estimated |
|--|-------|----------|---------|----------|-------------|----------------------|
| | | Original | Current | _ | Legislative | Cost to |
| | Fund | Planned | Planned | On | Expectation | Complete |
| Project Description | Type* | Ad Date | Ad Date | Schedule | (Baseline) | (WSDOT) |
| Total (July 1, 2006 - December 31, 2006) | | | | 88% | \$503,550 | \$503,435 |
| 9 Nickel Projects | | | | 89% | \$359,534 | \$360,216 |
| 17 TPA Projects | | | | 88% | \$144,016 | \$143,219 |

Source: WSDOT Project Control and Reporting Office

Project Details:

¹The baseline ad date was revised as an outcome of the 2006 Supplemental Session. WSDOT reporting data has not yet caught up with the 2006 Session information. This project was reported this way in GMAP. It is included here to ensure consistency across WSDOT external reports. This project is not delayed.

² The baseline ad date was revised as an outcome of the 2006 Supplemental Session. WSDOT reporting data has not yet caught up with the 2006 Session information. This project was reported this way in GMAP. It is included here to ensure consistency across WSDOT external reports. This project is not delayed.

³We need a footnote for this project

^{*}As established by the 2005 Legislative Evaluation and Accountability Program (LEAP) committee. However, dollars shown are for all fund types, not just Nickel or Transportation Partnership Account funds.

Selected Construction Highlights

Highway Construction Program

New to this Edition

I-5, Salmon Creek to I-205 - Widening

This project widens two miles of I-5 from NE 99th Street to NE 134th Street, from two lanes in both directions to three lanes plus an additional lane between interchanges. Traffic has been shifted onto the newly completed northbound bridge. The contractor completed construction of the new southbound bridge and is currently working on the southbound roadway widening. Water drainage issues at the site continue to increase construction costs. WSDOT is assessing project risks and will report in the next quarterly report. The project remains on schedule.

SR16/Olympic Drive to Union - HOV

This project constructs HOV lanes on SR 16 from Olympic Drive (Gig Harbor) to Union Avenue (Tacoma). Currently, there are four travel lanes. Upon completion, there will be six lanes throughout the corridor, with additional lanes provided between the Union Avenue and 6th Avenue interchanges. Work is expected to be completed in Spring 2007.

SR 99, S 284th to S 272nd St - HOV

This project builds an HOV-only lane in each direction for carpools, vanpools, and buses on SR 99 (north of Federal Way) between South 284th Street and South 272nd Street.

The contract was advertised in April and awarded in June 2006 to SCI Infrastructure. The total project cost is within the current budget. Utility relocation work is planned to be completed by the end of July. Due to this fact, the project has been removed from the Watch List.

SR 161 - Jovita Blvd. to S. 360th St.- Widen

This project widened SR 161 to five lanes through the commercial area of Federal Way, and to four lanes in the residential areas. Roadway in the commercial areas between Milton Way and Military Road South has four through-lanes and one two-way left-turn lane. The roadway in the residential areas between Military Road South and South 360th is now four through-lanes with left-turn pockets at designated intersections.

Crews have finished all roadway widening and miscellaneous construction. The completed work includes noise wall construction, retaining wall gutter installation, and three rainsensitive tasks: construction of the concrete median, paving

the top layer of asphalt throughout the project, and final striping. WSDOT completed this work to Open-to-Traffic in mid-July 2006, six months ahead of schedule.

I-205 Mill Plain SB Off-Ramp Improvements

This project widens the existing off-ramp to accommodate a second left-turn lane. The purpose of the project is to increase the capacity and safety of the off-ramp, which has been identified as a high accident location. This project is the first Transportation Partnership Account-funded construction project in Southwest Region and it is currently on track to be Operationally Complete earlier than scheduled. The project is within budget. [Checking with Region]

SR 270, Pullman to Idaho State Line

This project improves capacity and safety by widening SR 270 between Pullman and Idaho state line from two lanes to four lanes, with a continuous center turn lane. The project was awarded on April 27, 2006 to North Central Construction, Inc. for \$18 million. The contract was executed on May 8, 2006 and work began on July 10, 2006.

U.S. 395, NSC - Frances Avenue to Farwell Road

This project constructs two lanes of the North Spokane Corridor between Frances Avenue and Farwell Road, and completes the grading between U.S. 2 and Wandermere. The project consists of four contracts. The first contract, Farwell Road Lowering, was completed last year, and the second contract, Gerlach to Wandermere Grading, is underway with anticipated completion in late summer 2006. The revised third contract was re-advertised on May 30, 2006 and bids were opened on July 13, 2006, and the bid was 7.8% over WSDOT's Engineer Estimate.[Kimberly: do we want to report this fact learned after 7/30/06?] The project was awarded to Max J. Kuney. The fourth contract, "Francis Avenue to U.S. 2 – Grading and Paving" is scheduled for advertisement in October 2006.

SR 527 - 132nd St. SE to 112th St. SE

This is a partnership project with the City of Everett. This project will construct one new lane in each direction with a two-way, left-turn lane from 132nd SE to 112th SE to increase safety and reduce congestion. The City has funded the design and right-of-way acquisition utilizing developer and Transportation Improvement Board funds.

On May 12, KLB Construction crews opened all five freshly paved lanes of SR 527 to drivers. The new lanes, located between 132nd SE in Mill Creek and 112th SE in Everett, complete an almost twelve-mile long corridor widening project between Interstate 5 and Interstate 405. This project is within budget. Due to weather, the open-to-traffic date was delayed by three months.

Selected Construction Highlights

SR3/SR303 Interchange (Waaga Way)

The project is being accomplished in three phases. The first is scheduled to be completed by the end of summer 2006 and the second and third will be completed next year by the Summer of 2007.

The first phase comprises the majority of the work, including all land clearing, grading, the construction of nine structural walls and new highway ramps, the demolition of a portion of the SR 303 bridge over crossing SR3, the removal and replacement of the existing lighting system and construction of two new traffic signal systems and roadway paving. Currently the installation of temporary erosion control is in place, the temporary lighting system is up, and a temporary "free right-turn" lane from the SR3 southbound off-ramp to southbound SR 303 has been completed. Land clearing has been done on 40% of the project and grading is underway throughout the project.

I-5, 48th Street to Pacific Ave - HOV

This project prepares I-5 for future HOV lanes from 48th Street to Pacific Avenue in Tacoma. It also provides a new four-lane highway facility for northbound traffic exiting to downtown Tacoma, going to or from SR16, and entering I-5 from 38th Street. This four-lane facility will greatly improve the safety and mobility of traffic exiting or merging onto I-5.

Retaining wall construction began in August of 2005. Demolition of three bridges has been completed. The work continues. The project is now 30 percent complete, on budget, and is on schedule for completion in June of 2008.

36th St. to Olympic Drive N.W.

Recent Progress – The contractor has recently resumed work to complete Hot Mix Asphalt paving, shoulder construction, pavement markings, and other miscellaneous items of remaining contract work after a winter weather suspension that began on December 6, 2005. The current projected completion date for this segment of SR 16 HOV improvements is July 2006.

I-5 - Everett, SR 526 to US 2 HOV Lanes

This project will design and construct northbound and southbound HOV lanes on I-5 between SR 526 and US 2 in the City of Everett. Existing I-5 will be widened and the Broadway Interchange off-ramp will be moved to the right. Up to twenty bridges will be widened. Noise walls, retaining walls and a full stormwater system retrofit will be designed and constructed. Investigation of the Lowell Road slide area is included.

The 41st Street Bridge was demolished and detours are in place until the end of November when the new 41st Street Bridge will reopen to traffic. This project is on schedule and within budget.

SR 7 / SR 507 to SR 512 - Safety

This five-mile safety project is located on SR 7 between SR 507 and SR 512 in Pierce County. This project will increase safety for curbs, sidewalks and road approaches along the entire corridor.

Significant progress has been made on the northwest quarter of the project. Summer construction activities, including traffic signal installations, will be completed on the north half of the project. The project remains within budget and on schedule.

SR 9 - Nooksack Road Vicinity to Cherry Street

A new highway alignment is to be constructed from Nooksack Road to Cherry Street to alleviate weather-related load restrictions and reduce the number and severity of accidents.

The contract was awarded to IMCO General Construction of Bellingham, Washington in February 2006. Work began on April 10, 2006 and is expected to be completed by Fall 2007. Currently, the focus is to pave surface for the new alignment, realign Bone Creek and set the new box culverts at Bone and Easterbrook Creeks. All utility relocation work affecting contractor activities was completed by July 1, 2006.

Union Avenue to Jackson Avenue

The contractor recently switched traffic to the newly realigned outside lanes allowing work to be completed in the median between 6th Ave. and South 12th St. The traffic signal system at South Orchard St. is complete. Installation of drainage structures is 80% complete. Reconstruction of Center Street and the construction of retaining walls adjacent to the Center Street Bridge will begin in July 2006. The Snake Lake eastbound bridge improvements have been completed. Installment continues on several bridges. The current projected completion date for this segment of SR 16 HOV improvements is Spring 2007.

US 12, Vicinity Montesano to Elma Median Cross Over

This project will install twelve miles of "High Tension Cable Barrier" in the median of SR 12, between Montesano and Elma. The project will aid in preventing head-on collisions resulting from drivers crossing the median between the separated lanes and into oncoming traffic. The project was awarded to Petersen Brothers, Incorporated, on May 8, 2006. The contractor is currently acquiring the materials necessary for construction and intends to complete the project within fifty-four working days. The project is on time and within budget.

| SR 543 | 8 - I-5 to (| Canadian | <u>Border</u> | <u>- Additio</u> | <u>nal Lane</u> | es fo1 |
|--------|--------------|----------|---------------|------------------|-----------------|--------|
| Place | Holder | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Selected Construction Highlights

Freight

New lanes are to be constructed between Boblett Street and the Canadian border for a separate truck route to address congestion and safety issues on SR 543. Also a new interchange is to be constructed at 'D' Street, near the Canadian border.

The contractor, IMCO General Construction of Bellingham, Washington, began work on April 24, 2006 and is expected to finish by Fall 2008. Most activities have focused on preparing the site for the upcoming shaft-drilling operation. The contractor began drilling in May 2006 to place over one thousand shafts up to 80-feet deep to support retaining walls and the new D Street Bridge over SR 543. Drilling is expected to continue throughout most of the year.

Internal note: On Watch List for next GNB.

Other Capital Programs - Rails

Snohomish Riverfront Redevelopment

The City of Everett is pooling the state's \$1.8 million from the 2005 Transportation Partnership package with federal and local funds to construct a bypass to an existing BNSF Railway line along the river. The goal is to remove the existing line along the portion of the riverfront so that the property can be developed.

The project depends upon the City and BNSF completing a complex set of land swaps. As previously reported, the land swaps were delayed indefinitely from the scheduled December 2005 completion, due to negotiations between the parties. Completion of the City and BNSF land swaps is pending.

"Watch List" Projects - Cost and Schedule Concerns

Highway Construction Program

Projects Updated Since March 31, 2006

SR 9, 108th Street NE (Lauck Road)

This project is a partnership between WSDOT and Snohomish County. This project widens SR 9 by constructing a northbound left-turn lane and a southbound left and right-turn lane.

The escalating price of materials caused a construction cost increase of \$287,000. WSDOT's share of the cost is \$245,000. As mentioned in prior GNB, this project requires additional funding. Total WSDOT project costs have increased to approximately \$600,000. This project remains on schedule.

SR 20, Quiet Cove Rd Vicinity to SR 20 Spur

This project widens the lanes of SR 20 to twelve feet and the shoulders to four feet. It constructs a new bridge over Meadow Creek to accommodate left-turn lanes and to provide for fish passage. The project also corrects existing horizontal and vertical curves, closes intersections with sharp angles, and constructs new left and right-turn lanes.

The design team discovered that the area south of Gibraltar Road requires additional rock blasting and the construction of a detour to bypass the blasting areas. After updating the cost estimates for the project and accounting for the latest market trends of rising construction costs and properties acquisition, an additional \$8.6 million is needed to construct Stage Two. This project remains on schedule.

SR 20, Fredonia to I-5 - Widening

This project widens State Route 20 from two to four lanes from the intersection of SR 536 (Fredonia) to Interstate 5 (Burlington). Improvements to the northbound and southbound I-5 ramps will help to alleviate congestion.

Mainline improvements include construction of four new structures on SR 20, a new structure on SR 536 and bridge widening at Higgens Slough. A new traffic signal will be installed at Pulver Road and signal revisions will be provided at existing signalized intersections. The northbound I-5 off-ramp will be modified to accommodate the new roadway configuration. The funding provided will complete design and right of way phases and partially fund construction. Additional funding will be needed to complete construction of this corridor.

A Cost Risk Assessment completed May 2006 indicates that the total corridor cost will exceed current funding by approximately \$22 million. Right of way acquisition is considered the primary cost risk. The increased costs for the construction

stage are due to general cost escalations, increased agreement costs with the drainage district, Burlington Northern Santa Fe Railway, roadway detour and railroad flagging.

The Cost Risk Assessment indicates a potential delay to the Stage Two advertisement date of January 7, 2008 primarily due to right of way acquisitions, utility relocations and railroad issues. These risks will continue to be monitored and managed.

The corridor funding is sufficient for right-of-way purchasing and completion of design for the entire corridor. That will also leave enough money to fund construction for Stage One. To construct the rest of the corridor, Stage Two, approximately \$22 million is needed.

I-90 Two-Way Transit & HOV Operations

This project will build new direct transit and HOV access ramps on Mercer Island, improve the Bellevue Way ramp, and will add an outer roadway eastbound and westbound HOV lane between Bellevue and Seattle. The advertisement date for Stage One (Bellevue Way to 80th Ave SE) is being delayed from July 2006 to October 2006 as a result of permit issues and development of an access plan that provides equitable and dependable access for I-90 Mercer Island exit and entry. The cost of this project has increased to \$147.8M. This includes the cost of retrofitting the existing concrete pavement with dowel bars at the pavement joints to strengthen and extend the life of the pavement. The current funded budget is \$91.3M including \$15M Nickel and \$30M TPA funds. The unfunded amount is \$56.5M.

The I-90 project will be built in three stages. Stage One – Westbound between Bellevue Way and 80th Avenue SE on Mercer Island. Stage Two – Eastbound I-90, between Bellevue Way and 80th Avenue SE. Stage Three – Eastbound and Westbound between 80th Avenue SE and Rainier Avenue/I-5. SR 202, Preston-Fall City Road & SR 203

This project will construct a round-about at the intersection of SR 202 and SR 203. As discussed in the March 2006 Gray Notebook, business relocations of three parcels will not be complete by the advertisement date of October 2006 but will be completed prior to the actual start of construction in Spring 2007. The final right-of-way costs may exceed the authorized funds by \$500,000 due to ongoing negotiations with the property owners .The March 2006 Gray Notebook reported a preconstruction engineering cost increase of \$155,000 and a construction cost increase of \$150,000. These increases are now \$205,000 and \$293,000. The reason for these cost increases

"Watch List" Projects - Cost and Schedule Concerns

is due to further design effort required to avoid wetlands, floodplain impacts, permitting and the unanticipated cost to demolish two buildings.

I-205 Mill Plain Exit (112th Connector)

As reported in the previous Gray Notebook, the advertisement for this project, Stage One of the I-205 corridor improvement effort, has been delayed from April 2006 to April 2008 in order to complete a recently required Environmental Assessment. This project geographically overlaps with and coordinates with the new, adjacent TPA-funded project, I-205/Mill Plain to NE 28th Street (Stage Two).

To provide the most efficient construction of the overlapping projects, the department is proposing to move the construction of a fly-over bridge structure from Stage Two to Stage One. This action will require an advance of \$9 million of construction funds from 2009-2011 to 2007-2009. Additional funding is also needed to complete the construction of this project and will be further discussed in a future quarterly report.

I-405, 112th Ave SE to SE 8th Street (Bellevue)

This project adds lane capacity between 112th Ave. SE and SE 8th Street. Two issues noted in March put this project at risk for meeting schedule milestones: Endangered Species Act (ESA) consultation and railroad operation agreements.

Through negotiations with BNSF railroad a new highway alignment was identified which significantly reduces cost, schedule and environmental impacts. The tentative agreement with BNSF allows for a modified alignment with improved opportunities for water quality treatment and ESA compliance. This allows informal (vs. formal) ESA consultation and potentially reduces impacts to our schedule.

Informal ESA consultation and BNSF agreement discussions are continuing on a parallel path. The 12/06 Advertisement date is at less risk than previously reported.

I-5/SR 522/ BOTHELL UW Campus Access - PLACEHOLDER -

[Checking with the Region]

New Highway Construction Projects Added to the "Watch List" since March 31, 2006

I-5, Grand Mound to Maytown - Widening

This project will widen I-5 from Grand Mound (US 12 West Interchange) to the Maytown Interchange by adding one lane in each direction. Work also includes reducing the curvature of an existing freeway curve, improving the Grand Mound and Maytown Interchanges, and improving Rest Area on and offramps.

The current cost estimate has shown the project to be significantly over budget due to changes in the design of bridges, modifications required to meet new stormwater regulations, and the escalation in cost of construction materials in excess of anticipated inflation last estimated in 2002. WSDOT is currently investigating strategies to bring the project within budget, including the possibility of building the project in stages with the most critical work in the first stage.

Tacoma/Pierce County Core High Occupancy Vehicle (HOV) Program

The Tacoma/Pierce County Core High Occupancy Vehicle (HOV) Program is comprised of 22 individual contracts that will provide 79 miles of HOV lanes on I-5, SR 16, and SR 167. Benefit will be realized on several fronts including traffic congestion relief, safety and operational improvements, and environmental stewardship throughout the corridor. This is one of eight mega-projects statewide utilizing the General Engineering Consultant (GEC) model for project delivery.

Pre-existing, Nickel and TPA funding is provided for nine of the twenty-two contracts. These projects are all experiencing escalated material costs above normal inflation which are increasing the total cost of each project beyond the funding provided. WSDOT is currently assessing what can be done to reduce the cost of the projects, what the refined estimates are and both short and long-term programming strategies necessary to keep the projects within the corridor on schedule.

I-5 SR 502 Interchange

This project reduces traffic congestion on I-5 between NE 179th Street and NE 219th Street by constructing a new interchange with SR 502 at 219th Street. The new interchange will improve traffic flow and provide a more direct connection between Battle Ground and I-5. The project is on schedule for advertisement in December 2006. Escalating construction cost trends due to oil, diesel fuel, and construction material price increases will affect the planned construction budget for

"Watch List" Projects - Cost and Schedule Concerns

this project. WSDOT is assessing the impact of the increasing construction costs on this project and will discuss in the next quarterly report.

SR 9, Schloman Road to 256th & 268th

This project realigns two existing curves and widens SR 9 to provide twelve-foot lanes and four-foot shoulders. Slopes will be flattened and other safety features will be improved as needed.

Complications with environmental permitting require changes in the project's design. An updated preliminary engineering cost estimate, an updated construction cost estimate, along with increased oil, asphalt and steel prices have increased project costs by \$1.5 million. This project remains on schedule.

SR 9/SR 522 to 228th St SE – Widening, and SR 9, 228th St SE to 212th St SE (SR 524)

SR 9 will be widened to four or five lanes from SR 522 to 228th Street SE. The westbound on-ramp to SR 522 will also be widened to two lanes. A new traffic signal will be installed at the westbound off-ramp to northbound SR 9 and the signals at the eastbound ramps to SR 522 and at 228th Street SE will be upgraded. This project is divided into two stages. Stage 1A, which is complete, modified the SR 9/SR 522 Interchange. Stage 1B, which widens SR 9 from SR 522 to 228th Street, will add two new through-lanes and one two-way left-turn lane. The work includes a retaining wall and a stormwater retention system.

Right-of-way settlements on parcels in condemnation and the higher cost of site dewatering for retaining wall and retention pond construction will result in a \$1.2 million budget overrun. The project is currently on schedule.

SR 20, Ducken Road to Rosario Road

This project improves existing guard rail and illumination and constructs a southbound left-turn lane and a northbound right-turn lane at Ducken Road. The project is within Deception Pass State Park limits. The new guardrail will retain many of the character-defining features of the old guardrail, including the defining log and rock-and-mortar post appearance, as defined by a Memorandum of Understanding (MOU) between the Federal Highway Administration (FHWA) and the Washington State Parks and Recreation Commission.

As a result of the costs associated with the unique guardrail, with the effort required to avoid underground utilities, with unexpectedly drilling into bedrock, and with escalating materials costs, construction costs have increased \$2.1 million.

The MOU must be updated to address design concerns. This may impact the schedule and may delay the project advertisement date.

SR 31, Metaline Falls to International Border

This project constructs an all-weather highway to eliminate truck weight restrictions. The contractor resumed work on May 9, 2006 following a winter shutdown. At the construction site, the contractor recently discovered hydrostatic pressure that exceeds the retaining wall's design specifications. WSDOT is currently assessing to determine if the retaining wall will have to be redesigned and new permits obtained. The impact to the schedule and budget has not been determined at this time. In the interim, to allow vehicular traffic, the contractor has placed over half of the rock cap material on the roadway and is covering it with a temporary asphalt-treated base driving surface. Guardrail and drainage items are currently being installed and final asphalt paving is scheduled to begin in early August 2006.

I-90, Eastbound Ramps to SR 18 - Phase 2 Signal

The project is in its second stage, which widens the ramp and shoulders, provides a second left turn, and modifies the existing signals at the ramp terminals. The contract was advertised in March and awarded to KLB Construction in June 2006. Construction will begin this summer, with a planned completion date of the winter of 2006. \$1.2 million additional funding will be needed to cover existing design cost overruns and higher than anticipated construction costs. This project remains on schedule.

I-90, EB Ramps to SR 202 - Round-about

This project provides a two-lane round-about at the I-90/SR 202 interchange. To improve sight distance and to meet environmental requirements, a new retaining wall and retention pond must be constructed. These additions, along with cost escalations in asphalt, concrete, and fuel, have increased project costs by approximately \$550,000. The project remains on schedule.

SR160/SR16 to Longlake Road Vic.

This safety improvement project flattens the side slopes along the highway from SR 16 to Phillips Road vicinity and increases the roadway shoulder widths to four feet (six feet between Estonia Road and Brasch Road). A two-way left-turn lane will be added from the Fred Meyer Store to Brasch Road and left-turn lanes will be added at Phillips Road. The project also creates flat bottom ditches for storage and treatment of runoff water from the highway; and flattens front and side slopes for safety.

"Watch List" Projects - Cost and Schedule Concerns

Substantial increases in property values within the project limits have resulted in increased right-of-way (R/W) acquisition costs recently. Property acquisition will require an additional \$715,000. Preconstruction engineering and construction costs are also increasing as the project design is brought into compliance with current wetland, wildlife habitat and stormwater treatment mitigation requirements.

Additional funding, currently estimated at \$168,500 for preconstruction engineering and \$715,000 for right-of-way acquisition, is required in order to mitigate the environmental requirements. Final estimates are in development and will be reported in future Gray Notebooks.

SR 902, Medical Lake Interchange

The project advertisement date is being delayed from October 2006 to a future date yet to be determined in order to partner with Spokane County. The project provides traffic signals at the intersection of the I-90 ramp and SR 902 to improve traffic flow and safety. WSDOT is investigating a partnership with Spokane County and local developers to construct enhanced improvements in this location. The partnering of funds will delay installation of the traffic signals until Spokane County secures the funds and finalizes the design for their proposed improvements.

Other Capital Programs - Rail

Everett - PA Jct. Curve Realignments and Delta Yard Storage Tracks

This project will reduce travel times through the area and provide storage tracks to keep freight switching work off the main line resulting in improved on-time reliability for trains traveling north of Seattle. Pre-construction engineering began in August 2003, but issues with scope design and wetlands have delayed the anticipated construction start date of July 2005 to the winter of 2007. To account for the delay, WSDOT has proposed to defer \$8 million in 2003 "Nickel" funds from the 2005-2007 biennium into the 2007-2009 biennium. The department has proposed to advance other rail projects to make use of the \$8 million expenditure authority in the 2005-2007 biennium. These actions require approval by the Office of Financial Management.

Mukilteo Temporary Sounder Station

In late December 2005, WSDOT learned that the Sound Transit Board decided that Sound Transit would complete the permanent Mukilteo Station in mid-2007, thereby making construction of a temporary station redundant and unnecessary. WSDOT proposes to defer \$1.5 million in 2005 Transportation Partnership funds slated for this unnecessary

project in the 2005-2007 biennium to the 2011-2013 biennium. The department also proposes to advance other rail projects to make use of the \$1.5 million expenditure authority in the 2005-2007 biennium. These actions require approval by the Office of Financial Management.

Swift Customs Facility Capacity Improvements, Blaine, WA This project, funded in the 2005 Transportation Partnership package at \$3.0 million, will increase rail line capacity at the Swift Customs Facility and will ensure a reliable Amtrak Cascades train schedule. State funds will supplement a \$3.0 million federal earmark. The Legislature assumes an additional \$3.0 million in private/local/other funds that have not been secured.

BSNF began pre-construction engineering in December 2005, which will result in a phased construction plan to match the funds available while providing incremental improvements to rail and inspection operations. Delays due to scoping issues, stemming from recent traffic modeling, may result in the construction being delayed until July 2007. However, this will not delay the completion of construction, scheduled for June 2009

PCC Cheney – Coulee City – Pullman Acquisition & Upgrades

The 2004 Legislature appropriated funds to purchase the CW Branch of the PCC Railroad that is owned by Watco Companies, Inc. In September 2005, the owner withdrew the property from the sale, claiming that the scrap value of the railroad had increased substantially. WSDOT restarted negotiations in January 2006, but an agreement has yet to be reached. It is unknown whether a voluntary acquisition agreement can be reached with Watco for the remaining line, or whether formal, adversarial proceedings will be argued before the Surface Transportation Board. Until matters are resolved or an interim agreement reached, the purchase and track upgrade projects will be held in abeyance.

Internal Notes: Project was combined in 2006 Supplemental budget so only one write-up is required.

Geiger Spur Connection

The Legislature provided a total of \$5.0 million to build a new rail connection to Spokane County's Airway Heights Industrial Park to replace the connection that currently passes through Fairchild Air Force Base.

Recently, Watco and WSDOT have provided verbal commitments to Spokane County to allow the connection needed with the PCC CW Line, and have promised to provide written authority. The project depends on approval by the Surface

"Watch List" Projects - Cost and Schedule Concerns

Transportation Board, which could require an extensive environmental review process. Spokane County submitted its plans to an attorney specializing in STB law, and expects to resolve all STB issues by July 30, 2006.

The 30% plans were completed in May 2006 under a federal grant. The plans indicate a\$5.6 million cost for the project, including a 20% contingency for many remaining unknowns. The plans are being reviewed to bring the project within available funding limits.

New Creston Livestock Feedmill (Lincoln Count)

Lincoln County secured a tenant for a livestock feedmill just west of Creston. The tenant converted the operation to a biodiesel plant when the construction of the spur was delayed. WSDOT learned this quarter that the plant generates a demand for three hundred to four hundred-and-fifty rail cars per year; however, the plant is located on the disputed CW Branch of the PCC Railroad. Despite the uncertainty of the continued operation of the CW rail line, associated road improvements will be constructed under grants other than the WSDOT grant because the plant is economically viable without rail access, although costs are higher.

The rail spur will be engineered by September 30, 2006. Construction and a final decision on remaining WSDOT funds will await a determination of when the CW Branch will resume operations. (See project "PCC Cheney – Coulee City – Pullman Acquisition & Upgrades.")

Cascade and Columbia River Upgrade

The \$890,000 project would upgrade the light-duty tracks entering Oroville in Okanogan County to handle larger modern cars. The railroad has resolved previously reported problems with chip car availability that had earlier threatened the need for the project. WSDOT offered a loan to the rail company for the project. However, the rail company refused the loan in February 2006, but indicated that it may want to take out the loan in 2007, if conditions change. As the railroad has not rejected the loan at this time, WSDOT will continue to discuss the possibility of a future loan to the railroad and will make a recommendation on re-appropriation of the funds or deletion of the project by September 2006.

Dayton Yard Rehabilitation - Port of Columbia County

The Seneca Green Giant asparagus cannery relocated away from Dayton several years ago, and put its plant up for sale. The Port of Columbia County located two prospective replacements to purchase the plant and begin operations. However, rail upgrades were needed for the operations, so the Legislature provided \$270,000 to assist with the needed infrastructure.

Subsequently the Green Giant property was removed from the market, and the prospective operators lost any incentive to locate in the area. The Port has identified an alternative project that must be evaluated by WSDOT to determine whether it falls within the scope of the original authorization. It is uncertain at this time whether that is the case, and whether the alternative project can be completed by June 30, 2007.

New Rail Projects Added to the "Watch List" since March 31, 2006

Chehalis Jct. to Blakeslee Jct. via Centralia

The Legislature allotted \$7.4 million to help solve the rail and highway delays in the Centralia area due to increasing rail traffic to the Port of Grays Harbor. The original concept to utilize Tacoma Rail's minimally used line as a bypass between the two cities raised significant local concern. WSDOT facilitated an alternative plan allowing stakeholders such as the City of Centralia, City of Chehalis, BNSF, Tacoma Rail, etc. several options to achieve their goals. The affected railroads and stakeholders have agreed on a preferred solution, in concept, to improve congestion on the BNSF Main line and reduce local community impact, but a final decision has not yet been made. Phase One improvements required to satisfy all railroads and stakeholders are now estimated to cost over \$15 million.

Discussions with the affected railroads are still underway and, considering the time required to design the project and negotiate agreements between the affected railroads, construction will begin Spring 2007, with completion anticipated Fall 2007. To account for the construction deferment, WSDOT has proposed to defer \$2.4 million in 2005 Transportation Partnership funds from the 2005-2007 biennium into the 2007-2009 biennium. The department has proposed to advance other rail projects to make use of the \$2.4 million expenditure authority in the 2005-2007 biennium. These actions require approval by the Office of Financial Management.

Vancouver Rail Project including 39th Street Bridge

This project will construct mainline tracks to allow eastbound and northbound freight trains to bypass the rail yard in Vancouver. A rail siding for stopping freight trains clear of the north-south mainline and a new vehicle overpass would also be constructed. This will free up capacity on the north-south main line and improve on-time performance of the Amtrak Cascades trains. It is also a step toward adding a fifth Seattle-Portland round trip.

Based on a recommendation from WSDOT, the Legislature increased the overall funding to \$109.95 million as part of the 2006 Supplemental budget. The department has proposed to

"Watch List" Projects - Cost and Schedule Concerns

advance \$4.935 million in 2003 "Nickel" Package funds and another \$2 million in dedicated federal funds for this project from the 2007-2009 biennium. This action will allow completion of pre-construction engineering and continue right of way purchases in the current biennium. Right of way acquisition would be completed in Fall 2007, with construction starting in late 2007. These actions require approval by the Office of Financial Management.

Advanced funds are needed because, with only \$1,050,000 currently budgeted in 2005-2007, pre-construction engineering will not be completed in the current biennium, delaying right of way purchases and construction. Overall project completion would be deferred by up to twelve months.

Kelso-Martin's Bluff 3rd Mainline

WSDOT will complete an Environmental Impact Statement (EIS) of the entire project area. The draft EIS document is anticipated to be released for public comment in Spring 2007. WSDOT's discussions with the port districts and with BNSF Railway to address relieving the heavy rail congestion in this area indicate their interest in moving forward with a scaled down project that could be funded with the currently available \$49.7 million.

The department has proposed to advance funds for this project from the 2011-2013 biennium to the total 2005-2007 biennium budget.

This will allow the department to complete the Environmental Impact Statement and to perform coordination with BNSF and local ports. These actions require approval by the Office of Financial Management.

Point Defiance (Lakewood) Bypass - Phase One

WSDOT has developed a phased plan for the project, using existing state funds. Phase One will construct improvements that will allow Amtrak Cascades trains to use the bypass route without being delayed by freight or Sounder commuter trains, reducing travel times between Seattle/Tacoma and Portland by six minutes. In the 2006 Supplemental budget, the Legislature moved project funds from the 2009-2011 and 2011-2013 biennia to 2007-2009 so WSDOT and Sound Transit can coordinate the design and construct the rail line at the same time to maximize the value of public funds. WSDOT has begun this effort and has initiated pre-construction engineering and environmental documentation.

The department is proposing to advance \$2.96 million from the 2007-2009 biennium for pre-construction engineering to the current biennium, making the total 2005-2007 biennium budget \$5.64 million. This will allow continued coordina-

tion with Sound Transit, guarantee that the construction of the WSDOT project is completed prior to Sound Transit starting service to Lakewood, and possibly reduce costs on both projects.

The department also proposes to advance \$900,000 in 2005 Transportation Partnership funds for this project from the 2007-2009 biennium. If the funds are not advanced, construction will be delayed by six to twelve months. These actions require approval by the Office of Financial Management.

King Street Station Track Improvements

WSDOT, BNSF Railway and Sound Transit have been working for some time on a preferred track design that works for all users of King Street Station. However, Sound Transit needs the improvements completed by January 2008 to fulfill their contractual commitments to BNSF to begin operating nine daily round trips between Tacoma and Seattle.

To construct the "preferred" design, the unused I-90 on-ramp from Fourth Avenue needs to be removed and BNSF must purchase two properties. The ramp removal is scheduled to go to construction in July 2006. The ramp removal and property purchases are scheduled to be completed by November 2006, if the funds are available. While WSDOT has only \$3 million available for this stage of the project, costs are anticipated to exceed \$5 million. Once the ramp removal and property acquisition is completed, the track construction is estimated to take twenty months, which would mean Sound Transit might not be able to expand their service until at least July 2008 unless they change their agreement with BNSF.

The department has proposed to advance \$4 million for the King Street Station project from the 2009-2011 biennium to the 2005-2007 biennium. This shift will allow completion of preconstruction engineering, property acquisition and the start of construction in the current biennium. These actions have been approved by the Office of Financial Management.

Other Capital Programs - Ferries

For nearly ten years, the Washington Ferry System has been negotiating treaty fishing rights impacts with Puget Sound tribes for new terminal development. The proposed Edmonds Ferry Terminal at Point Edwards was the first location for which the Ferry System reached a settlement. The terms of the settlement agreement were first reached in Spring 2004, and the ferry system has been working with the four affected Tribes since that time to develop a mutually acceptable legal agreement. While it has been challenging to resolve differences between tribal (four Tribes) and State laws, the biggest obstacle is reaching agreement on the equitable distribution of the settlement

"Watch List" Projects - Cost and Schedule Concerns

among the Tribes. The Ferry System negotiated payment for impacts to Treaty fishing rights at Edmonds, but they are still in the process of working through negotiations for Mukilteo, Anacortes, Seattle, Port Townsend, Keystone, and Bainbridge Island. The process is complicated by the number of Tribes involved and different tribal concerns at each location. Unique to the negotiations at the Northern Puget Sound locations is the commonality between the Tribes at three locations. The Suquamish, Tulalip, Lummi, and Swinomish all have Treaty fishing rights at Edmonds, Mukilteo, and Anacortes. The Ferry System is meeting with the Army Corps of Engineers to continue to gain a deeper understanding of how to move forward on issues identified by the Tribes.

Anacortes Multimodal Terminal

This project will replace the existing terminal. The new terminal will improve safety and access for passengers and vehicles, provide connections with other modes of travel, and increase amenities and services at the terminal. Project elements to be accomplished over the next ten years include replacement and expansion of the aging terminal building, relocating tie-up slips to deeper water with one of the slips capable of loading and unloading service vehicles, improvement of site circulation, and incorporation of new required security features. Construction of the third tie-up slip (originally planned for September, 2005) has been delayed to September, 2007, pending resolutions with the Tribes by spring, 2007. Discussions with the Tribes on cultural and archaeological issues pertaining to Section 106 documentation are ongoing. An Inadvertent Discovery Plan is near completion and will be presented to the Tribes for review.

The Anacortes Multimodal Program is using the General Contractor Construction Manager (GCCM) delivery method for the terminal building construction. The GCCM contractor will assume the role of construction manager, responsibility for the constructability review of the design documents and, as necessary, function as the value engineer. The Ferry System has selected the GCCM contractor and executed the preconstruction services contract. 30% design documents were submitted in July 2005 for the terminal building and the site circulation projects. These documents were rejected because they exceeded the project budget. Terminal building design has resumed with recommendations to bring the costs back into budget. Three building concepts are being presented for public input. A final building design concept should be chosen by the Ferry System within the next few weeks. Planning of the interim site is underway. Stormwater treatment consultation

with third-party stakeholders and local experts is enabling the Ferry System to be environmentally responsible and creative with stormwater treatment design.

Bainbridge Island Trestle Improvement Project (Dock-Widening)

The project is an expansion of the existing dock to resolve operational deficiencies at the Bainbridge Island Ferry Terminal. The estimated 2006 construction budget is \$9.5 million. An environmental review and documentation is in progress for the overall Bainbridge Island Terminal Improvement project (\$160 million). The Suquamish Tribe, the City of Bainbridge Island, and the public have raised concerns in regard to potential segmentation of the Bainbridge Island projects by the activity of conducting smaller project-by-project environmental analyses.

The current master planning process will analyze the applicability of dock widening as a solution to the operational deficiencies within the environmental documentation process for the overall Bainbridge Island Terminal Improvement project. This delay of approximately two years may increase costs.

Mukilteo Multimodal Terminal

This project relocates the existing Mukilteo Ferry Terminal to a new site and constructs a larger, multimodal terminal facility in order to meet several goals. Among them are to grow ridership, to provide travel options for customers who use the regional transportation system, to relieve congestion and conflicts on adjacent local streets, and to avoid costly investments in preserving the existing facility.

The project originally included a dock with two slips; holding capacity for two boat loads of vehicles; four toll booths with HOV priority; a terminal building; an overhead pedestrian bridge connecting ferry, transit and rail; a transit center; an HOV priority staging area and by-pass lanes; bike facilities with bike staging; and pedestrian promenades. After public comment, a parking structure was added for consideration among several alternatives.

The project is expected to be completed by 2010. In 2003, the project cost estimate was \$131 million and the Legislature agreed to provide \$123.2 million. Currently, the department has narrowed the list of project alternatives to the Compact Alternative (\$168 million) and the Upland Alternative (\$152 million). With one exception, both of these alternatives address the original project scope and the parking structure. The main difference between the alternatives is the amount of vehicle holding space located over water.

"Watch List" Projects - Cost and Schedule Concerns

The department is working with Sound Transit and the Port of Everett to resolve the right-of-way issues. Also, the department is considering project cost reductions that may involve delayed construction of the parking structure or the second vessel slip or both. The department continues to work with the Federal Transit Administration (FTA), the lead agency, and all Indian Tribes who are party to the Point Elliot Treaty on mitigation for any rights granted by the Treaty which may be impacted by the new terminal. WSF and FTA are currently working on an Environmental Impact Statement in which Section 106 is being evaluated as part of the NEPA process. With regard to that process, archaeological work is currently underway.

Removed From Watch List

SR 4, Svensen's Curve - Realignment

As reported in the last Gray Notebook, SR 4 Svensen's Curve has been deferred to April 2012 and has moved off the Watch list. The Legislature will decide whether to delete this project or fund it. Should another waste site be found, project costs will increase.

I-5/SR 526 to Marine View Drive - HOV

This is a design-build project that will widen I-5 for the construction of northbound and southbound HOV lanes between SR 526 and the vicinity of Marine View Drive in Everett. The project also includes north and southbound auxiliary lanes between 41st Street and U.S. 2.

As reported in the March 2006 Gray Notebook, BNSF approved the last agreement on May 3, 2006. Shortly thereafter, BNSF provided design approval on May 19, 2006. It appears that BNSF will be able to meet the design-builder's schedule. WSDOT will monitor the situation and provide future "watch list" updates as needed.

SR 522/I-5 to SR 405 Multimodal Project

This Lake Forest Park project constructs pedestrian enhancements, a transit signal and also replaces a two-way left-turn lane with a raised median.

The project was advertised in June with bid opening scheduled for mid-August 2006. \$400,000 additional funding from the Transportation Improvement Board (TIB) and \$40,000 more from King County Metro have been secured, reducing the project funding shortfall identified last quarter to about \$90,000. WSDOT continues to monitor the progress of the utility relocations. Higher right-of-way settlement costs on several parcels continue to be of concern. WSDOT is monitoring the right-of-way costs to provide future "Watch List" updates as needed.

WSDOT's Capital Project

Delivery Programs

Preliminary Data - Subject to Verification

Project Delivery Summary Reports

DRAFT

Schedule Milestone Tracking for Nickel Projects

Milestone Results for all Nickel Projects with one or more Milestone Activity

| Milestone | Number of Projects with this Milestone | Number of Scheduled Milestones Achieved | Number of Scheduled Milestones Not Achieved | Achievement Rate |
|---|--|--|--|---------------------|
| Project Definition Complete | with this Milestone | willestories Achieved | Willestolles Not Achieved | nate |
| | 6 | 5 | 4 | 83% |
| Biennium to Date (2005-07) | _ | | 1 | |
| Cumulative to Date (2003 - June 06) | 48 | 45 | 3 | 94% |
| Begin Preliminary Engineering | | | | |
| Biennium to Date (2005-07) | 5 | 3 | 2 | 60% |
| Cumulative to Date (2003 - June 06) | 111 | 97 | 14 | 87% |
| Environmental Documentation Con | nplete | | | |
| Biennium to Date (2005-07) | 11 | 10 | 1 | 91% |
| Cumulative to Date (2003 - June 06) | 28 | 25 | 3 | 89% |
| Right of Way Certification | | | | |
| Biennium to Date (2005-07) | 4 | 1 | 3 | 25% |
| Cumulative to Date (2003 - June 06) | 18 | 11 | 7 | 61% |
| Advertisement Date | | | | |
| Biennium to Date (2005-07) | 22 | 14 | 8 | 64% |
| Cumulative to Date (2003 - June 06) | 61 | 48 | 13 | 79% |
| Operationally Complete | | | | |
| Biennium to Date (2005-07) | 9 | 9 | 0 | 100% |
| Cumulative to Date (2003 - June 06) | 22 | 21 | 1 | 95% |
| ource: WSDOT Project Control and Reporting Office | | | | |

Source: WSDOT Project Control and Reporting Office

Baseline Data: Baseline milestone dates are derived from the original Legislative expectation (2003-05 budget). Advertise Project and Operationally Complete Milestones are considered on-time if completed within the scheduled baseline calendar quarter. All other milestones are reported as on-time if they are completed within +/- 6 weeks of baseline date

Milestone Definitions:

Project Definition Complete

Project definition is the preliminary picture of what a project will achieve and generally how it will do so. It includes deficiencies being addressed, the purpose for a project, location, and project information to the best available level. It is not a true project scope (that requires design effort) but it does support the very first preliminary cost estimate.

Begin Preliminary Engineering

A project schedule usually has two general phases, the pre-construction phase and the construction phase. Preconstruction involves design, right of way, and environmental activities. Beginning the preliminary engineering marks the start of the project design and is usually the first capital spending activity in the delivery process.

Environmental Documentation Complete

The National Environmental Protection Act (NEPA) and the State Environmental Protection Act (SEPA) require that an appropriate level of environmental assessment be prepared for almost all WSDOT projects. Depending on the project, these can take the form of an Environmental Impact Statement (EIS) or another document of lesser scale. These assessments end in the issuance of a Record of Decision (ROD) or

other summary document. This milestone is the date that WSDOT will have finished and submitted to the appropriate regulatory agencies, the documentation for the ROD and/or issuance of permits.

Right of Way Certification

Often WSDOT projects require the acquisition of right of way or property rights. The Right of Way Certification marks the point in time that right-of-way acquisition requirements are met and the process is complete for advertisement.

Advertisement Date

This is the date that WSDOT schedules to publicly advertise a project for bids from contractors. When a project is advertised, it has a completed set of plans and specifications, along with a construction cost estimate.

Operationally Complete

This is the date when the public has free and unobstructed use of the facility. In some cases, the facility will be open, but minor work items may remain to be completed.

WSDOT's Capital Project Delivery Programs **Preliminary Data - Subject to Verification**

Project Delivery Summary Reports

Schedule Milestone Tracking for Transportation Partnership Account (TPA) Projects

Milestone Results for all TPA Projects with one or more Milestone Activity

| Milestone | Number of Projects with this Milestone | Number of Scheduled Milestones Achieved | Number of Scheduled Milestones Not Achieved | Achievement Rate |
|---|--|--|--|---------------------|
| Project Definition Complete ¹ | | | | |
| Biennium to Date (2005-07) | 45 | 33 | 12 | 73% |
| Cumulative to Date (2003 - June 06) | 60 | 46 | 14 | 77% |
| Begin Preliminary Engineering ¹ | | | | |
| Biennium to Date (2005-07) | 115 | 42 | 73 | 37% |
| Cumulative to Date (2003 - June 06) | 159 | 84 | 75 | 53% |
| Environmental Documentation Con | nplete | | | |
| Biennium to Date (2005-07) | 16 | 15 | 1 | 94% |
| Cumulative to Date (2003 - June 06) | 21 | 20 | 1 | 95% |
| Right of Way Certification | | | | |
| Biennium to Date (2005-07) | 5 | 5 | 0 | 100% |
| Cumulative to Date (2003 - June 06) | 8 | 8 | 0 | 100% |
| Advertisement Date | | | | |
| Biennium to Date (2005-07) | 22 | 20 | 2 | 91% |
| Cumulative to Date (2003 - June 06) | 25 | 23 | 2 | 92% |
| Operationally Complete | | | | |
| Biennium to Date (2005-07) | 10 | 9 | 1 | 90% |
| Cumulative to Date (2003 - June 06) | 10 | 9 | 1 | 90% |
| ourse: WCDOT Project Central and Reporting Office | | | | |

Source: WSDOT Project Control and Reporting Office

Baseline Data: Baseline milestone dates are derived from the original Legislative expectation (2005-07 budget). Advertise Project and Operationally Complete Milestones are considered on-time if completed within the scheduled baseline calendar quarter. All other milestones are reported as on-time if they are completed within +/- 6 weeks of baseline date

Milestone Definitions:

Project Definition Complete

Project definition is the preliminary picture of what a project will achieve and generally how it will do so. It includes deficiencies being addressed, the purpose for a project, location, and project information to the best available level. It is not a true project scope (that requires design effort) but it does support the very first preliminary cost estimate.

Begin Preliminary Engineering

A project schedule usually has two general phases, the pre-construction phase and the construction phase. Preconstruction involves design, right of way, and environmental activities. Beginning the preliminary engineering marks the start of the project design and is usually the first capital spending activity in the delivery process.

Environmental Documentation Complete

The National Environmental Protection Act (NEPA) and the State Environmental Protection Act (SEPA) require that an appropriate level of environmental assessment be prepared for almost all WSDOT projects. Depending on the project, these can take the form of an Environmental Impact Statement (EIS) or another document of lesser scale. These assessments end in the issuance of a Record of Decision (ROD) or

other summary document. This milestone is the date that WSDOT will have finished and submitted to the appropriate regulatory agencies, the documentation for the ROD and/or issuance of permits.

Right of Way Certification

Often WSDOT projects require the acquisition of right of way or property rights. The Right of Way Certification marks the point in time that right-of-way acquisition requirements are met and the process is complete for advertisement.

Advertisement Date

This is the date that WSDOT schedules to publicly advertise a project for bids from contractors. When a project is advertised, it has a completed set of plans and specifications, along with a construction cost estimate.

Operationally Complete

This is the date when the public has free and unobstructed use of the facility. In some cases, the facility will be open, but minor work items may remain to be completed.

¹ Project Definition and Begin Preliminary Engineering delays were due to Initiative 912. WSDOT is working to re-assess the schedule, budgets, and risk factors of each of the projects impacted by I-912. This assessment will be included as part of the 2007-09 budget/program development process.

WSDOT's Capital Project Delivery Programs

Paying for the Projects: Financial Information

2003 Transportation Funding Package

2003 Transportation Funding Package Highlights Deposited into the Transportation 2003 (Nickel) Account (established in 2003)

- 5¢ increase to the gas tax
- 15% increase in the gross weight fees on trucks Deposited into the Multimodal Account (established in 2000)
- An additional 0.3% sales tax on new and used vehicles
- A \$20 license plate number retention fee

Revenue Forecast Update

The following information incorporates the June 2006 forecast projections. The accompanying charts compare the current projected revenue forecast to the baseline forecast used in the budget making process when the 2003 Funding Package was adopted. The 2003 Funding Package was developed as a tenyear plan from 2003 through 2013. Due to timing issues, the 2005 Legislature moved several preservation projects into the 2013-15 biennium. Both cumulative ten-year totals and individual biennial amounts are shown.

Current forecasted revenues include the most recent actual revenue collection data available as well as updated projections based on new and revised economic variables.

Transportation 2003 (Nickel) Account projections for the gas tax receipts and licenses, permits, and fees are slightly lower than the baseline forecast, causing a minor decrease in the tenyear outlook for the account.

Multimodal Account projections for the vehicle sales tax are slightly higher than the baseline forecast, resulting in a slight increase in the ten-year outlook.

Forecasted revenues are still closely aligned with the legislative baseline projection for both accounts.

Bond Sales Plan for Authorizations Provided by the 2003 Transportation Funding Package

In addition to the new revenue sources, the 2003 Transportation Funding Package contained two new bond authorizations:

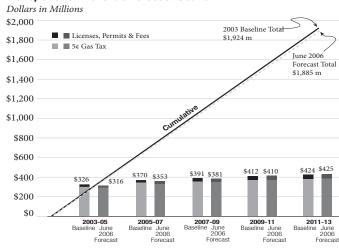
- Gas tax bonds: authorization of \$2.6 billion
- State General Obligation (GO) bonds: authorization of \$349.5 million

For the 2005-07 biennium the 2006 Legislature's Supplemental Budget appropriated \$880 million in proceeds from gas tax bonds and \$49.6 million from the state GO bonds. The current bond sale plan for this biennium is anticipated at \$856.5 million for the Nickel Account and \$48.5 million for the Multimodal Account. The differences between the appropriated amounts of \$880.0 million and \$49.6 million, respectively, and the Bond Sales Plan are attributed to premiums received on prior bond sales.

For details on the current bond sale plan and detailed account information, please visit the WSDOT website www.wsdot. wa.gov/finance

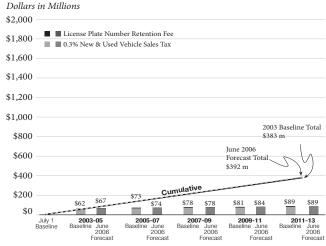
Transportation 2003 (Nickel) Account Revenue Forecast

March 2003 Legislative Baseline Compared to the June 2006 Transportation Revenue Forecast Council



Multimodal Account (2003 Package) Revenue Forecast

March 2003 Legislative Baseline Compared to the June 2006 Transportation Revenue Forecast Council



WSDOT's Capital Project Delivery Programs

Paying for the Projects: Financial Information

Transportation Partnership Program

2005 Transportation Package Revenue Sources

9.5¢ increase to the gas tax phased in over four years

- 3.0¢ in July 2005
- 3.0¢ in July 2006
- 2.0¢ in July 2007
- 1.5¢ in July 2008

New vehicle weight fees on passenger cars

- \$10 for cars under 4,000 pounds
- \$20 for cars between 4,000 and 6,000
- \$30 for cars between 6,000 and 8,000

Increased combined license fees for light trucks

- \$10 for trucks under 4,000 pounds
- \$20 for trucks between 4,000 and 6,000 pounds
- \$30 for trucks between 6,000 and 8,000 pounds
- · Farm vehicles are exempt from the increase

A \$75 fee for all motor homes

Fee increases to various driver's license services

- Original and renewal license application increased to \$20 (previously \$10)
- · Identicards, Driver Permits and Agricultural Permits increased to \$20 (previously \$15)
- Commercial Driver License and Renewal increased to \$30 (previously \$20)
- License Reinstatement increased to \$75 (previously \$20)
- DUI Hearing increased to \$200 (previously \$100)

Fee increases to various license plate charges

- Reflectorized Plate Fee increased to \$2 per plate (previously 50¢)
- Replacement Plates increased to \$10 (previously \$3)

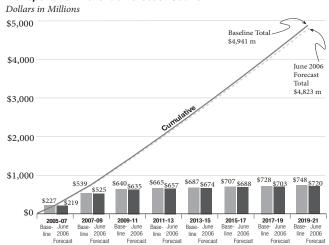
Revenue Forecast Update

The following information incorporates the June 2006 gas tax forecast projections. The accompanying chart compares the current projected revenue forecast to the "baseline" forecast used in the budget making process when the 2005 Funding Package was adopted. The 2005 Funding Package was developed as a 16-year plan extending from 2005 through 2021.

The June 2006 forecast for gas tax receipts over the 16-year period decreased slightly; however, forecasted revenues are still closely aligned with the legislative baseline projection.

Transportation Partnership Account Gas Tax Revenue Forecast

March 2005 Legislative Baseline Compared to the June 2006 Transportation Revenue Forecast Council



Bond Sales Plan for Authorization Provided by the 2005 Funding Package

The 2005 Transportation Funding Package includes a new bond authorization of \$5.1 billion over the 16-year period.

2005-2007 Biennium

For the 2005-07 biennium, the Legislature appropriated \$150.0 million in proceeds from the gas tax bonds. The current bond sale plan is anticipated at \$145.5 million for this biennium. The difference between the appropriated amount of \$150.0 million and the Bond Sales Plan is attributed to premiums received on prior bond sales.

It should be noted that project construction was put on hold for most of the first fiscal year of the biennium, pending the outcome of Initiative 912, in the November 2005 election. Currently project construction is underway. A 10-year expenditure plan has been established and the 2015-21 biennia are under development.

For details on the current bond sale plan and detailed account information please visit the WSDOT website www.wsdot. wa.gov/finance.

WSDOT's Capital Project

Preliminary Data - Subject to Verification

Pre-Existing Funds: Programmatic Reporting

PEF Program Milestone Reporting

On April 6, 2006, the Transportation Performance Audit Board (TPAB) released a report to the Governor, House Transportation Committee, Senate Transportation Committee, and the Joint Legislative Transportation Committee. This report, Washington State Department of Transportation Capital Project Delivery Reporting outlines the effort by TPAB to convene a Transportation Working Group (TWG) to develop coherent instructions and requests regarding budget and schedule reporting of WSDOT's capital projects.

As reported in the December 31, 2005 issue of the *Gray Notebook*, and in alignment with the TPAB report, future editions of the *Gray Notebook* will begin reporting on the progress of Pre-Existing Funds (PEF) projects by programmatic categories. The chart below shows the six programmatic categories that are planned to be reported and the number of projects associated with each category for this biennium.

Each category will be reported by the actual and forecasted amount for the following measures:

- Number of Projects Beginning Engineering
- Number of Projects Advertised for Bids
- Number of Projects "Operationally Complete"
- · Program Cash Flow

Last quarter WSDOT made enhancements to the Project Management Systems to allow tracking of the PEF program by milestones in the Capital Project Management System (CPMS). WSDOT continues to validate new data for accuracy

Why is the Pre-Existing Funds Program reported differently than the Nickel and TPA Program?

Unlike Nickel and Transportation Partnership Account (TPA) projects, which are fixed lists of projects set by the Legislature and funded with a line item budget for each individual project, the Pre-Existing Funds (PEF) fund programs to correct deficiencies defined by categories and subcategories at a program level. Funding is aligned to commitments to address set priorities such as number of miles paved per biennium. Each biennium, new PEF projects are programmed based on prioritized needs and available funds so the list of PEF projects changes each biennium.

Because Nickel and TPA projects were defined and budgeted at the project level from the beginning, milestones and other benchmark data to monitor individual project delivery were established and are available. However, since PEF projects have been historically funded programmatically, this type of data has not been collected and is not currently available. Future programs will collect benchmark project data such as the three milestones.

and update PEF project milestones in CPMS. It is anticipated this process will conclude over the course of the next quarter and milestones will be confirmed in the next Gray Notebook

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Pre-Existing Funds Projects for the 2005-07 Biennium

Dollars in Millions

| Programmatic Categories* | # of Projects 2005-07 | Total Sub-Program Estimate for These Projects | Average Project Size |
|--|--------------------------|---|-------------------------|
| Pavement Preservation | 184 | \$219.0 | \$1.2 |
| Bridges (Preservation/Replacement) | 56 | \$68.1 | \$1.2 |
| Slope Stabilization | 17 | \$18.3 | \$1.1 |
| Safety (roadside, rumble strips, median cross-over, etc.) | 54 | \$61.2 | \$1.1 |
| Environmental Retrofit (fish passage improvement, stormwater runoff) | 14 | \$5.5 | \$0.4 |
| Other Facilities (rest area, weight stations) | 39 | \$146.7 | \$3.8 |
| Total | 364 | \$518.8 | \$1.47 (Average) |

*While elements of one or more categories may be included in some of the projects (such as a bridge preservation project that improves safety), every project has been assigned to one primary category for reporting purposes.

WSDOT's Capital Project Delivery Programs

Pre-Existing Funds Program: Programmatic Reporting

Advertisement Record: One Hundred Twenty-Two Projects Now in Construction as of June 30, 2006

Biennium to Date (2005-07)

The 2005-07 Highway Construction Program includes a commitment to advertise 336 Pre-Existing Funds (PEF) projects. PEF advertisements through the quarter ending June 30, 2006, were 135 of the planned 176, or 77% of the "planned" commitments for the first four quarters. In addition, seven projects scheduled for advertisement in future quarters of the biennium, 12 emergent projects, and 15 projects scheduled for advertisement in prior biennia were advertised the first four quarters, and 7 projects were deleted.

Current Quarter (April - June 30, 2006)

Of the 36 planned advertisements for the fourth quarter, 24 were advertised as scheduled, three were advertised earlier this biennium, five were delayed to later in the biennium, one was deferred to a future biennium, and two were deleted. Therefore, a total of 24 of the 36 projects scheduled for the fourth quarter have been advertised and are now in the construction phase. Additionally, 13 projects not scheduled for the fourth quarter were also advertised and are now in the construction phase.

PLACEHOLDER - GRAPH 1 - HIGHWAY CONSTRUCTION PROGRAM ADVERTISEMENTS PRE-EXISTING FUNDS

PLANNED VS. ACTUAL NUMBER OF PROJECTS ADVERTISED

2005-07 BIENNIUM, QUARTER 4 ENDING JUNE 30, 2006

The table below summarizes the delivery status of PEF projects advertised during the fourth quarter of the 2005-07 biennium. This summary includes the safety improvement projects and project delivery accomplishments within this quarter.

PLACEHOLDER - PIE CHARTS RECONCILING END OF LAST QUARTER TO END OF THIS QUARTER AND TABLE OF PROJECT DATA. PLACED AS ONE GRAPHIC IN LAST GNB

Preliminary Data - Subject to Verification

WSDOT's Capital Project Delivery Programs

Preliminary Data - Subject to Verification

Pre-Existing Funds Program

Advertisement Record: Projects Advertised for this Quarter April - June 30, 2006

Forty-two PEF projects scheduled to be advertised for construction during the fourth quarter of the 2005-07 biennium

| Project Description | On-Time Advertised | Project Description | On-Time Advertised |
|---|-----------------------|---|-----------------------|
| SR 3/Kitsap Way to SR 305 - Median Crossover | ✓ | SR 503/SR 502 to Rock Creek Road - Paving | ✓ |
| I-5/East Fork Lewis River Bridge Repair | ✓ | SW Region, I-5 and I-205 Pavement Marking | ✓ |
| I-5/Sign Structure at Michigan St/Corson Ave S I/C-Replace | ✓ | SR 510/Sitka Street to 93rd Ave. SE Paving | Advanced |
| I-5/South Everett Freeway Station/112th St SE - Transit Direct Access | ✓ | I-90/Spokane Viaduct Bridge Deck Rutting Repair - Eastbound | Early |
| I-5/McAllister Creek Bridge - Repair | ✓ | I-90/Spokane Viaduct Bridge Deck Rutting Repair - Westbound | Early |
| US 12/Corn Creek Bridge Vicinity to Davis Lake Rd Vicinity - Paving | ✓ | I-90/MP 66 Vic. WB - Rock Removal and Slope Stabilization | Early |
| US 12/Rimrock Tunnel Vicinity - Rockfall Prevention | \checkmark | I-90/Ryegrass Hill Vicinity - Paving | Early |
| US 12/Clear Lake Vicinity-Rockfall Work | ✓ | I-405 Canyon Park Freeway Station - Direct Access and Flyer Stop | Early |
| US 12/7 Miles East of SR 123-Rockfall Work | ✓ | SR 169/SR 516 to SE 264th St Paving | Early |
| US 12/Snake River Br. at Clarkston | ✓ | Mill Creek Fish Passage ¹ | Late |
| SR 18/Auburn Black Diamond Rd Vic to Green River Vic | \checkmark | I-90/Midway Curve East - Stabilize Slope9 | Emergent |
| US 101/Golf Course Rd. to Lincoln St Paving | \checkmark | I-90 / Midway Curve Central - Stabilize Slope9 | Emergent |
| US 101/Sol Duc River Br 101/314 Sappho Vicinity-Scour | ✓ | I-90 / Midway Curve West - Stabilize Slope9 | Emergent |
| SR 112/West Twin River to Gossett Rd Paving | ✓ | SR 20/Walker Hill Rd - Graves Mtn Rd - Paving ³ | Delay |
| SR 112/Gossett Rd. to US 101 - Paving | ✓ | US 101/Evergreen Parkway to Vic Crosby Blvd - Median Crossover ⁴ | Delay |
| SR 142/Snyder Canyon Cr Fish Passage Barrier Removal | ✓ | US 101/Humptulips River Br - Bridge Scour⁵ | Delay |
| SR 142/Bowman Creek Fish Passage Barrier Removal | \checkmark | SR 231/Spokane River Bridge - Deck Rehab ⁶ | Delay |
| US 195/Junction SR 271 to Vicinity Plaza Road - Paving | \checkmark | SR 512/108th St E to SR 167 - Median Barrier ⁷ | Delay |
| SR 305/Hostmark Street Vicinity to Bond Road - HOV | ✓ | SR 539/Horton Road to Tenmile Road - Widen ⁸ | Delay |
| SR 433/Lewis and Clark Bridge Painter | ✓ | SR 3/Hood Canal Bridge Holding Lanes ² | Deferred |
| SR 501/Ridgefield to I-5- Paving | ✓ | SR 3/Johns Creek Bridge-Scour ¹⁰ | Deleted |
| | | | |

Source: WSDOT Project Control and Reporting Office

Project Details:

 $^{1}\mathrm{Original}$ ad date was 10/05. The delay was due to the environmental permitting that took longer then originally anticipated.

 $^{2}\mbox{Delayed}$ to coincide with HCB closure to minimize traffic impact.

³This advertisement is being delayed four months from May 2006 to September 2006 due to increased construction costs. The planned Operationally Complete date is being moved to October 2007.

⁴Additional fill needed to meet the required 6:1 slope approaching the barrier location prompted further environmental review than from the original scope, resulting in delay in obtaining environmental permits.

 $^5\mbox{Scour}$ mitigation is more complex than originally assessed. Scour team requested additional time to assess the best solution.

This advertisement is being delayed six months from April 2006 to October 2006 in attempts to advertise at the optimum time to attract multiple bidders to the project. This delay will not

affect the Operationally Complete date.

⁷Additional fill needed to meet the required 6:1 slope approaching the barrier location prompted further environmental review than from the original scope, resulting in delay in obtaining environmental permits.

⁶This advertisement is being delayed 6 months ***looks like 8 months to me ****** from April 2006 to December 2006 due to an unwilling seller. This delay will not affect the operationally complete date.

⁹These projects were added to the program to correct rockslides that occurred on I-90.

¹⁰The WSDOT Bridge Office determined that the current conditions do not warrant a scour repair at this time.

WSDOT's Capital Project Delivery Programs **Preliminary Data - Subject to Verification**

Pre-Existing Funds Program: Individual Reporting

Schedule Milestone Reporting

Six Pre-Existing Funds projects have been selected for individual project reporting on a quarterly basis. These projects have been selected due to the size and visibility of each project. The following table summarizes the three schedule milestones

tracked for these six Pre-Existing Funded projects: Begin Preliminary Engineering, Advertisement Date, and Operationally Complete.

Six Individually Tracked Pre-Existing Funds Project Results through June 30, 2006

Dollars in Millions

| | First Leg. | Baseline: Current Leg. | Begin P | ed Date to reliminary ngineering | | e Date for rtisement | Schedule Date to be Operationally |
|---|---------------------|------------------------------|----------|--|----------|-------------------------|---|
| | Budget | Approved | Date | On-Time | Date | On-Time | Complete |
| SR 28 - East End of the George Sellar Bridge | \$9.4 (2004) | \$9.3 (2006) | May 2004 | ✓ | Oct 2008 | ✓ | Sep 2010 |
| SR 539 - Horton to Tenmile Road | \$32.0 (2001-03) | \$52.6 (2006) | Oct 1990 | ✓ | Feb 2007 | ✓ | Jun 2009 |
| SR 202 - SR 520 to Sahalee Way | \$36.9 (2001-03) | \$82.1 (2006) | May 1998 | ✓ | Aug 2005 | Late ¹ | Dec 2008 |
| U.S. 101 Purdy Creek Bridge Replacement | \$6.0 (2004) | \$11.1 (2006) | Aug 2004 | Late ² | Oct 2007 | ✓ | Sep 2009 |
| U.S. 2/Ebey Island Viaduct and Ebey SI Br. | \$32.1 (2002) | \$35.5 (2006) | Dec 2005 | ✓ | Apr 2007 | √ | Sept 2010 |
| SR 303/Manette Br Bremerton Vic Br. Replacement | \$25.5 (2002) | \$25.8 (2006) | Sep 1996 | ✓ | Mar 2008 | Late ³ | Nov 2011 |

Future Reporting: Current WSDOT Estimate of Cost at Final Completion is the critical number toward which all modern project management is pointed. Today WSDOT engineers and program managers can only back into these values as best as possible without the management information systems that allow schedule and budgets to be used as the basis for value-earned management systems. WSDOT is considering ways to use estimating techniques to approximate these values until new management information systems are installed and project data is loaded.

Baseline Data: Baseline milestone dates are derived from the 2003 Legislative Transportation Budget. Advertisement Date and Operationally Complete milestones are considered on-time if completed within the scheduled baseline calendar quarter. The Begin Preliminary Engineering milestone is reported as on-time if completed within +/- 6 weeks of baseline date.

Milestone Definitions:

Begin Preliminary Engineering

A project schedule usually has two general phases, the pre-construction phase and the construction phase. Preconstruction involves design, right-of-way, and environmental activities. The preliminary engineering marks the start of the project design and is usually the first capital spending activity in the delivery process.

Advertisement Date

This is the date that WSDOT schedules to publicly advertise a project for bids from contractors. When a project is advertised, it has a completed set of plans and specifications, along with a construction cost estimate.

Operationally Complete

This is the date when the public has free and unobstructed use of the facility. In some cases, the facility will be open, but minor work items may remain to be completed.

Project Details:

- ¹ This project was delayed from the original 2005 Legislative Final advertisement date to address several environmental and permit issues.
- ² Preliminary Engineering for the Purdy Creek Bridge was late by one year due to passage of Referendum 51 that reduced program funding. Although the Preliminary Engineering began late, WSDOT has been able to maintain the original Advertisement and Operationally Complete dates.
- ³ The project was selected for Value Engineering, to ensure that the public is receiving the best project possible for the investment at this location. Incorporating the results of the study has delayed the design and contract plan preparation, resulting in a delayed Advertisement

WSDOT's Capital Project Delivery Programs

Preliminary Data - Subject to Verification

Pre-Existing Funds Program: Financial Information

PLACEHOLDER - GRAPH
PRESERVATION PROGRAM CASH FLOW
PRE-EXISTING FUNDS
PLANNED VERSUS ORIGINAL VERSUS ACTUAL
EXPENDITURES
2006-2007 BIENNIUM, QUARTER 4 ENDING JUNE
30, 2006

PLACEHOLDER - GRAPH
IMPROVEMENT PROGRAM CASH FLOW
PRE-EXISTING FUNDS
PLANNED VS. ORIGINAL VS. ACTUAL

EXPENDITURES

2006-2007 BIENNIUM, QUARTER ENDING JUNE 30, 2006

WSDOT's Capital Project Delivery Programs

16

Special Report: Tacoma Narrows Bridge, Quarterly Update

New Bridge Construction

As of June 30, 2006, design-builder Tacoma Narrows Constructors (TNC) has completed 79.5% of construction on the SR 16 Tacoma Narrows Bridge project. In the second quarter, TNC completed spinning and compacting for the bridge's main suspension cables. The last wire on the north cable was pulled on April 18, 2006. All suspender ropes on the south main cable were installed along with the the majority of the suspender ropes on the north main cable. By the end of June, TNC installed six of the eight gantry cranes and lifting systems on the main cables to prepare for deck section lifting. TNC also removed most of the spinning equipment from the area behind the east anchorage and began backfilling.

On June 8, the semi-submersible ship the *Swan* arrived in Commencement Bay with the first 16 deck sections from South Korea. After a fit-out to install winches and remove sea fasteners, it anchored under the west side span on June 29. Its sister ship (the *Teal*) will carry the second of three shipments and is scheduled to arrive in July. In May, WSDOT and TNC



The Swan arrived with the first shipment of deck sections on June 8, 2006

announced a delay in the bridge opening of appoximately three months. The scheduled date is now June 30, 2007. (see the December 31, 2005 *Gray Notebook*, p. 22).

Bridge Retrofit Construction

In the second quarter, TNC began fieldwork for the new 24th Street eastbound on-ramp. By the end of the quarter, TNC had graded and paved the new ramp, and construction of a new

Tacoma Narrows Bridge Progress

As of June 30, 2006

| Design | 99.9% |
|--------------------|-------|
| Construction | 79.5% |
| Total ¹ | 81% |

¹Weighted 7% Design progress and 93% Construction progress. Source: WSDOT Engineering and Regional Operations Division

wall in the ramp and mainline merge area began. TNC also graded and paved the cul-de-sac at the end of 14th Avenue on the west side of the bridge. Paving was completed on the eastbound mainline alignment. Eastbound traffic was switched to the new roadway.

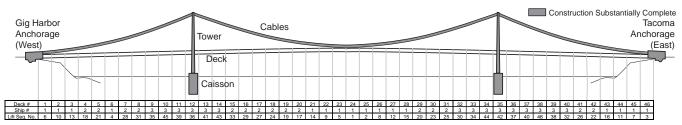
At the east anchorage, the spinning equipment was dismantled, the supporting concrete pads were demolished, and backfilling of the area began. Clearing and grubbing of the newly aligned Jackson Avenue off-ramp began.

Seismic retrofit work on the existing bridge progressed steadily. The slab pours inside the east anchorage were completed. TNC also finished the new foundations for the existing bridge bent 7 (pier) and began work on the bent 8 upper walls.

Toll Facility, Installation and Operations

In April, WSDOT launched the public information campaign for WSDOT's electronic tolling system, *Good To Go!* The public awareness campaign included a kick-off event, web site unveiling, local weekly newspaper ads, participation in community events and community briefings, and brochures provided to local retailers to distribute. In the second quarter, WSDOT filed the initial notice of the Washington Administrative Code to prepare for the establishment of tolling administrative procedures.

Tolling contractor TransCore continued installation of hardware in the administrative building. TransCore also prepared for commission testing, the second of three major system tests. At the toll plaza, workers calibrated and tested the express and manual toll lanes.



Three cargo ships will deliver a total of 46 deck sections. Ship No. 1 with 16 sections (now moored in the Narrows between the west bridge tower and shoreline). Ships No. 2 and No. 3 will each carry 15 sections and will arrive later this year. The first row (Deck #) of the table indicates the deck blocks - 1 through 46. In the third row (Lift Seq. #), the number tells the order in which the sections will be lifted. Note that the lifting occurs in a non-linear sequence. It may appear to be "out of order" but this sequence is necessary to maintain equal stress on the cables.

WSDOT's Capital Project Delivery Programs



Special Report: Hood Canal Bridge, Quarterly Update

The Hood Canal Bridge Project is wider with safety shoulders to increase motorist and bicyclist safety. Additionally, the new east-half will be easier to travel. When finished, the Hood Canal Bridge will be wider, safer, and more affordable to maintain.

Hood Canal Bridge 20% Complete

WSDOT and its contractor, Kiewit-General (K-G) of Poulsbo, will construct 14 new pontoons inside the 150-foot wide by 465-foot-long Concrete Technology graving dock over four construction cycles. Another three pontoons, built during the west-half bridge replacement in the early 1980's, will be retrofitted to use as part of the new east-half. New anchors will be constructed and floated into place prior to pontoon replacement. The completed east-half pontoon roadway sections and fully assembled east-half draw span will be floated into place during the bridge closure in May and June 2009. As of June 30, 2006, the SR 104 Hood Canal Bridge construction project is 20% complete.



Workers spread concrete and work it down between rebar and conduit in the first pontoon concrete pour April 28, 2006.

Less than six months after WSDOT and K-G began work at Concrete Technology in Tacoma, approximately 140 cubic yards of concrete flowed into the first new Hood Canal Bridge pontoon. Pontoon construction began in March 2006. On April 28, 2006, the first concrete pour took place. To date, pontoon construction is 16% complete.

First Pontoon Wall Pour

On Friday, May 26, 2006, concrete for the first pontoon wall section was poured. The crews worked around the pontoon cells in a pattern, pouring approximately two feet at a time for the first 17-foot tall wall section. Crews placed the 160 cubic yards of concrete in less than eight hours. The pontoon walls are only six inches thick, so getting concrete down to the bottom of the 17-foot tall wall is very difficult. WSDOT and K-G engineers completed the pour using a special concrete mix and unique pouring techniques.

17 of 56 Concrete Pours Complete

A concrete pour will occur every week for the three pontoons currently under construction (PA, PB and Q). Completion for these sections is planned for January 2007. All together, 56 pours are required to place the 7,952 cubic yards of concrete that make up pontoons PA, PB, and Q. That is enough concrete to build a single-lane highway almost three and one-half miles long.

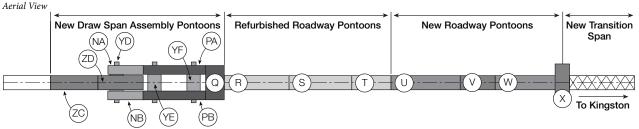
Material Fabrication 79% Complete

East- and west-half material fabrication is 79% complete. Work includes truss and transition span, lift span cylinder and fabrication, and assembly of other steel bridge parts. WSDOT and K-G continue to work to ensure quality component production and on-time material delivery.

The items below are the first materials incorporated into the pontoons in the second quarter of 2006:

- Crews installed the first stainless steel and aluminum hatches in pontoon PA. Fabrication is close to completion for all 550+ hatches needed for the 14 pontoons.
- K-G workers set in place the first guide roller anchor bolt assemblies for pontoon PA. The anchor bolts hold the 10-ton guide rollers into position. The guide rollers will keep the draw span in alignment as the bridge opens and closes for marine traffic.
- The first pontoon access ladders arrived on-site and are ready for installation.

Schedule Diagram of Hood Canal Bridge Pontoon Construction Cycles



August 2007.

- To be Built in 1st Cycle (PA, PB, Q). Scheduled Delivery Date: January 2007.
- To be Built in 3rd Cycle (ZC, ZD, V, X). Scheduled Delivery Date: April 2008.
- Retrofitting (R, S, T). Scheduled Delivery Date: April 2008.
- To be Built in 4th Cycle (U, W). Scheduled Delivery Date: September 2008.

To be Built in 2nd Cycle (NA, NB, YD, YE, YF). Scheduled Delivery Date:

Source: WSDOT Hood Canal Bridge Project Office

Right of Way

On-Time Certification Analysis

Before a project can be advertised for bidding to contractors, WSDOT must certify that all rights necessary to construct the project have been acquired. WSDOT's business practices to acquire real estate are strictly guided by state and federal laws. These guildelines include state and federal regulation such as RCW's, WAC's, and the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended. WSDOT's goal is to deliver 100% on-time certification for all projects.

2003-05 Biennium Certification Right of Way Delays Data has been Revised

Data collected for 2003-05 biennial report, published in the December 2005 *Gray Notebook* (p. 25), was intended to provide underlying causes for 20 projects with right of way certifications delays. On-going investigation led to the realization that, since certification does not take place until there is an advertisement scheduled, certification may be documented as late when it was in fact ready but was delayed to accommodate a delay in the advertisement.

Therefore, the data issued in the previous report reflects the underlying causes of *advertisement* delays, not right of way certifications delays. The data in the table at the top right shows corrected and accurate data for right of way delays in 2003-05. The previous report incorrectly identified 20 delays due to problems with certifying right of way when that number is actually eight.

These eight projects are:

NSC-Francis Avenue to Farwell Road

The project had a difficult condemnation process on a parcel, coupled with relocation complications.

SR 270/Pullman to Idaho State Line

A change in design included additional right of way acquisitions, resulting in an extended schedule.

SR 532/Junction 102nd Avenue NW

A survey record showed conflicting boundaries; the resulting right of way plan change delayed acquisition.

SR 20/Monkey Hill Rd. to Troxell Rd. & SR 20/Northgate Drive to Banta Rd.

In both of these projects, the acquisition process was delayed due to termination of a contract with a consultant appraisal firm, which resulted in late re-appraisal and late acquisition of a parcel with complex relocation.

On-Time Right of Way Certification

| | 2003-05 Biennium¹ | 2006 Fiscal Year |
|---|----------------------|---------------------|
| Number of projects with a right of way phase | 68 | 32 |
| Number of projects with right of way certification delays | 8 | 4 |
| Percent of projects with a right of way phase that had an on-time certification (Goal = 100%) | 88% | 88% |

Source: WSDOT Real Estate Services Office

¹This data has been corrected from previous reporting. See the text to the left for more information.

SR 539/King Tut Rd. and Bartlett Rd.

A late right of way plan delayed acquisitions.

SR 164/SE 368th Place & 158th Avenue SE & SR 164/196th Avenue SE Vic. to 244th Avenue SE

In both of these projects, ownership issues involving tribal interests delayed design. Inadequate time was allowed for right of way acquisition, which required approval and coordination through the Bureau of Indian Affairs.

Fiscal Year 2006 Right of Way Certification Delays

Thirty-two projects in fiscal year 2006 had a right of way phase. Four of these projects were late due to right of way certification delays.

I-5/Chehalis Western Trail Pedestrian Bridge - New Structure

A late scope change added unscheduled right of way acquisitions, resulting in late certification.

I-405/Bellevue Direct Access

This project was handled by a third party government, with limited WSDOT involvement. The delay was caused by a right of way process dispute between the third party and another governmental entity.

Federal Way - S 317th St HOV Direct Access & I-5/164th St. SW to SR 526-HOV and Interchange Modifications

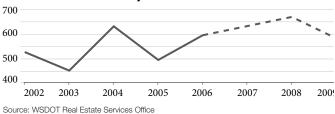
These were both third party government projects. WSDOT did not have any involvement in right of way acquisition, and the cause of the delay for each is unknown.

Right of Way

Right for Way Acquisitions

Projections show an increase through 2008, then a slow decrease through 2009. This reflects the growth in highway projects from the 2005 TPA program, coupled with the 2003 Nickel tax.

Acquisitions for all PEF, TPA and Nickel Projects Actuals 2003-2006 and Projections 2007-2009

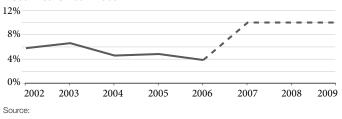


Right of Way Condemnation

Condemnation rates have remained fairly stable in recent years, averaging around 5% of acquisition totals. An increase in filings and cases is expected due to additional acquisitions and tight schedule deadlines from the TPA program. This will require WSDOT to better manage protracted negotiations.

Condemnations Rates for all PEF, TPA and Nickel Projects

Actuals for Fiscal Years 2003-2006 and Projections for Fiscal Years 2007-2009



Right of Way "Watch List" Projects - Cost and Schedule Concerns (April - July 2006)

SR160/SR16 to Longlake Road Vic.

Recent substantial increases in property values have driven up right of way costs, which will require an additional \$715,000.

SR 20, Fredonia to I-5 - Widening

A Cost Risk Assessment completed May 2006 indicates that the total corridor cost will exceed current funding by approximately \$22 million. Right of way acquisition is considered the primary cost risk due to third party design and acquisition decisions.

SR 522/I-5 to SR 405 Multimodal Project

Several parcels are experiencing higher right-of-way settlement costs than were anticipated.

I-90 Two-Way Transit & HOV Operations

The final right-of-way costs may exceed the authorized funds; the potential increase is a result of property values having escalated since the original scoping.

SR 9/SR 522 to 228th St SE - Widening and

SR 9, 228th St. SE to 212th St. SE (SR 524)

Right-of-way settlements on parcels in condemnation will contribute to a budget overrun.

Utilities

XX Nickel Projects, XX TPA projects, and XX PEF projects were completed from January 2006 to June 2006. Two of these projects have experienced delays due to utilities work.

When existing utilities are in the way of highway construction projects, affected utility companies must be given reasonable time to design and relocate their facilities. Utility relocations involve managing various levels of risk in order for WSDOT to advertise and deliver projects on schedule. As of this quarter, WSDOT will track utility risk for all Nickel, TPA and PEF projects.

The department's goal is to eliminate utility relocation risks before project bid packages are advertised. When this is not possible, WSDOT carefully assesses the risk and mitigation strategies to keep the project moving forward. WSDOT has identified three risk levels to assign to projects. Utility issues are components of risk along with environmental and right-of-way issues. See the table below for a description of the risk level classifications for utilities work.

Risk Levels for Projects Going to Advertisement: Utility Risks

| Level I | Utilities have been relocated, or are clear of construction. |
|---------|--|
| Level 2 | Utility companies are actively pursuing relocation and the department has assurances they will be clear by the date bids are opened. |
| Level 3 | Utilities have not been relocated, and will not be relocated by the bid opening date that has been cited in the contract provisions. The department has assurance that the utility company will be able to meet the date stipulated on the contract. |

Project Advertised at Risk Levels Two and Three for Utilities Work (January—June 2006)

XX projects were advertised between January and June of 2006. Of these, three were classified at Risk Level 2 and five at Risk Level 3 for utility concerns.

Nickel Funded Projects

The second second

SR 99, S 284th to 272nd ST HOV Lanes

The project went to a seven-week advertisement period in April at Risk Level 2. This allowed the impacted utilities time to perform relocations, which were complete by the end of June.

US 12, Attalia Vic.—Add Lanes

The project required railroad construction easements. Completion was pending as of December 2005, classifying the project as Risk Level 3. Bid opening was extended to May 2006. Railroad

agreements have since been fully executed. Railroad utility relocations are scheduled but no impacts are anticipated.

I-90, Eastbound Ramps to SR 18 Phase 2—Signal & Channelization

Projects Going to Advertisement at Risk Level 2 or 3

| | July - Dec 2005 ¹ | Jan - Jun 2006 |
|----------------------------|---------------------------------|-------------------|
| Risk Level 2 | 1 | 3 |
| Risk Level 3 | 4 | 5 |
| Source: WSDOT | Utilities Office | |
| ¹ Only Nickel F | Projects are in | ncluded |

The project was advertised in March at utility Risk Level 2. Puget Sound Energy and CenturyTel utility relocations are incorporated into the WSDOT project. Utility relocation coordination will be the responsibility of the contractor.

PEF Projects

SR 20, Twisp East—Fish Passage

CenturyTel relocated facilities during construction. The project was advertised in March at Risk Level 2 and is now complete.

SR 165, Carbonado to SR 410 Paving & SR 162 Realignment

This project required easement acquisition for a Puget Sound Energy (PSE) utility pole and power line relocations associated with intersection realignment. This work has a late start date to allow time for easement acquisition and utility relocation. The project was advertised in March at Risk Level 3. PSE and Comcast have relocated. Qwest is currently relocating.

SR 305, Hostmark Street Vic. to Bond Road—HOV Lanes

Utility relocations include PSE poles, overhead utilities, and other jointly located aerial utilities. PSE committed to pole and utility relocations by August 1st and the other utility companies have committed to complete relocation by August 15th. Easement acquisition is almost complete. Some relocation has been made within the right of way to accommodate construction. This project was advertised in May at Risk Level 3.

SR 305, Ferry Terminal to Hostmark Street—Paving

Cantilever sign structure installation requires relocation of PSE electrical distribution and service lines. One day of relocation is expected with utility work covered by agreement with the utility. Contract provisions address this work if relocation is not complete by construction start. The project was advertised in March at Risk Level 3 and relocation are now complete.

Projects Funded By Other Sources

I-5, S Everett Freeway Station 112th ST SE

This Sound Transit direct access project required the relocation of a Puget Sound Energy gas line. The project was advertised at Risk Level 3 in May with an eight-week advertisement period. Relocation work is complete.

Construction Costs Trends

WSDOT prepares its construction cost estimates using historical information about market conditions drawn from recent bids. Like other state transportation departments, WSDOT must extrapolate for the future based on past records, not from a crystal ball of future market conditions. WSDOT accumulates construction cost information and calculates a Construction Cost Index (CCI). The CCI is then compared against the experience of other states. WSDOT's CCI is a composite of unit price information from low bids on seven of the most commonly used construction materials. These items reflect a composite cost for a completed item of work and include the costs of labor, equipment, and materials. (For more information, see the September 2005 Gray Notebook, p. 45).

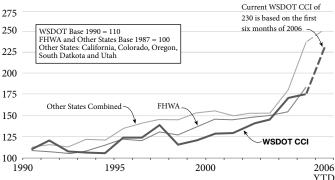
The graph below presents the past 16 years of CCI data for Washington State. This is plotted against the CCI of the Federal Highway Administration (FHWA) and a line representing the combined CCIs of several nearby states: California, Colorado, Oregon, South Dakota and Utah.

The average annual growth rate of the CCI from 1990 through 2001 was 1.5% per year. However, since 2001, the average growth rate has been 12% per year. During this period the CCI has been driven up by several factors, including: the increasing worldwide demand for construction materials; rising crude oil prices and other energy supply issues; and recent increases in national and international construction activity.

Construction Cost Index is up 31% over 2005

WSDOT's CCI has increased 31% in the first two quarters of 2006 over the annual average for 2005, from 176 to 230. Most of this increase occured in the first quarter (see the March 2006 Gray Notebook, p. 33). Of the seven materials WSDOT tracks in the CCI, Hot Mix Asphalt (HMA) comprises almost half the weight of the index. HMA costs rose 33% in the first two quarters of 2006 (see page XX).

Construction Cost Indices Washington State and Others



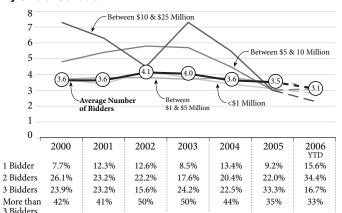
Note: WSDOT 2006 Index is for Quarters 1 & 2; Other States 2006 Index based on California, Colorado and Oregon First Quarter Data; FHWA, South Dakota and Utah 2006 Data not available Note: 2003 and 2004 CCI data points adjusted to correct for spiking bid prices on structural steel Sources: WSDOT Construction Office, FHWA

50% of Projects Have Three or More **Bidders, 50% Have Two or Fewer**

WSDOT's goal is to have three or more bidders for each highway construction project. However, large public and private construction programs in Washington, as well as at the national level, are explaining a trend of fewer contractors submitting bids for WSDOT projects. This reduction in bidding competition is a sign that contractors have a full load of workload ahead of them, unfortunately, it will tend to produces less aggressive prices for WSDOT projects.

The average number of contractors bidding on each WSDOT project decreased 11% in the first two quarters of 2006, from an average of 3.5 bidders in 2005 to an average of 3.1 bidders in the first two quarters of 2006. The percentage of WSDOT projects with three or more bidders decreased from 69% in 2005 to 50% in the first two quarters of 2006. The percentage of WSDOT projects with three bidders decreased 48% in the first two quarters of 2006, from 33% in 2005 to 17%, while the number with one or two bidders has increased in that time. For information about how WSDOT can influence the highway construction market in Washington State, and factors that are outside of WSDOT's control, see the December 31, 2005 Gray Notebook (p. 29).

Average Number of Bidders By Size of Contract



Source: WSDOT Construction Office

The following components (weighted as shown) are used to compute the CCI:

Hot Mix Asphalt (48.5%) Structural Concrete (17.4%) Roadway Excavation (10.7%) Concrete Pavement (3.2%) Crushed Surfacing (7.9%)

Structural Steel (6.9%) Steel Reinforcing Bar (5.4%)

Construction Costs Trends

Oil Prices Influence Construction Costs

Hot Mix Asphalt (HMA) prices typically follow a similar pattern to the price of crude oil and diesel fuel. Historically, WSDOT's experience is that asphalt suppliers' strategic management of their liquid asphalt and fuel purchases has worked to buffer the cost of HMA from the peaks and valleys of crude oil and diesel prices. This is done through bulk purchasing contracts and long term purchase agreements between the oil suppliers and paving contractors. This relationship has helped WSDOT "weather the storm" throughout many of the increases noted in the past. Increases can be seenin the first quarter of 2003, and in the steady trend from late 2004 throughout 2005, in the graph to the right.

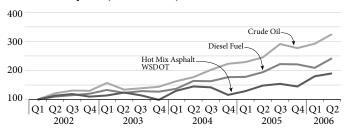
WSDOT regularly graphs projected and awarded HMA use to help paving contractors and HMA suppliers better manage their requirements (see the March 31, 2006 *Gray Notebook*, p. 32).

WSDOT is carefully watching two industry trends in crude oil and diesel fuel that could drive up construction costs. Currently, market experts are warning that paving contractors are beginning to losing their ability to lock in long term price agreements with HMA suppliers and may ultimately wind up paying the "day of delivery market price". This will significantly impact a contractor's ability to manage the cost risk associated with HMA. Further, with the high demand for the lighter end fuels, refineries are making business decisions to invest hundreds of millions of dollars in refinery modification, known as "catalytic crackers." This allows them to further refine the heavier end of the crude oils into more lucrative fuels rather than liquid asphalt. This may increase demand pressure relative to supply for liquid asphalt.

The relationship between HMA and crude oil prices is significant as virtually every activity necessary to produce and place a ton of HMA is highly dependent on petroleum products, including diesel fuel as well as liquid asphalt. Mining, crushing, hauling, stockpiling, and drying the aggregates require fuel. Liquid asphalt used as a binder for HMA is derived from crude oil. Finally, the hauling of the mix to the site and the work to lay down and compact the asphalt also require petroleum products.

WSDOT is working with the industry, as well as DOTs in other states, to develop and implement escalation clauses that would transfer much of the risk of petroleum price uncertainty from the contractor to the state. This is being pursued because WSDOT believes that contractors are beginning to lose their ability to manage this risk in the face of rising prices and the previously mentioned industry trends.

Hot Mix Asphalt, Crude Oil, and Diesel Fuel Indices



BASE 2002 Q1 = 100

Source: Hot Mix Asphalt, WSDOT Construction Office

Diesel Fuel, U.S. Dept. of Energy - Energy Information Administration, West Coast No. 2 Crude Oil, U.S. Dept. of Energy - Energy Information Administration - West Texas Intermediate

Labor Construction Costs will Rise in 2006-07

Labor costs contribute roughly 40% to contractor costs for the delivery of a typical WSDOT highway construction project. In the recent past, labor contract negotiations have been relatively flat, with respect to wages, leaving the negotiations to center around the benefits package. However, the contractor industry expects significant upward cost pressure on labor costs: wages, healthcare and retirement will all be major issues in the next rounds of trade union negotiations.

Hourly salary rates, pensions, and benefit costs are generally established by reference to collective bargaining agreements between contractors and the unions. The contractor's trade association (AGC) orchestrates the effort of contract negotiation for the five major labor groups on a regional basis. Agreements between contractors and the unions on the east side of the state are set to expire this year and are currently under negotiation; the agreements on the west side of the state expire next year.

In today's booming construction market, the potential for labor shortages is high, and construction contractors are potentially facing a "premium charge" (in addition to the labor agreement renegotiations) just to attract and retain a qualified workforce. Significant salary and benefit increases are also being seen at the private engineering consulting firms engaged by WSDOT for outsourced design and consulting.

Currently, there is no systematic tool available to WSDOT to predict the exact magnitude of forthcoming inflationary cost pressures arising from collective bargaining for construction trades or consultant services. WSDOT will observe as these new agreements unfold.



Construction Safety and Employment

Employment and Safety Data Now Combined

This section of the *Beige Pages* tracks the job site employment records on the 2003 Transportation Funding Package (Nickel) projects. The employment figures represent a "snapshot" estimate of the average direct jobsite employment on each Nickel project over the course of the quarter.

Safety data is not available this quarter. *More text is forthcoming on why construction safety data is not available.*

The table below provides the operationally complete list; this includes projects that are operationally complete but still have some residual work (such as landscaping) that is employing people, or are operationally complete as of this quarter. The second list includes projects that are design-build: that is, one contractor both designs and builds the project. Most projects are designed within WSDOT and built by private contractors.

The third table (on pp. XX-XX) shows employment data for those regular, ongoing Nickel projects. The final table shows a wrap-up of all employment and safety data from the three preceding tables.

Some projects will move on and off the list depending on whether there was work in the quarter. If no one worked this quarter, then the project will not be reported on for construction employment and safety data in this *Gray Notebook*.

WSDOT is also working with AGC to provide employment and safety information for the 2005 Transportation Partnership Account (TPA) projects.

Employment and Safety Numbers for Operationally Complete Nickel Projects

| Project | Contractor | WSDOT Project Engineer | Number of Subcon- tractors | Employment Jan - Mar. 2006 | Employ- ment Apr - June 2006 |
|--|------------------------|---------------------------|----------------------------------|----------------------------------|------------------------------------|
| I-5/NE 175th St. to NE 205th St North- bound Auxiliary Lane | Pacific Road & Bridge | Amir Ahmadi | 20 | 15 | 1 |
| I-5, 2nd Street Bridge Replacement | Mowat Construction Co. | Dave Crisman | 32 | 4 | 1 |

Source: WSDOT Construction Office and WSDOT Project Control and Reporting

Employment Numbers for Design-Build Nickel Projects¹

| Project | Contractor | WSDOT Project Engineer | Number of Subcon- tractors | Employment Jan - Mar. 2006 | Employ- ment Apr - June 2006 |
|---------------------------------------|----------------------------------|---------------------------|----------------------------------|----------------------------------|------------------------------------|
| I-5/SR 526 to Marine View Drive - HOV | Atkinson CH2M Hill Joint Venture | Roland Benito | 34 | 222 | 269 |
| I-405/SR520 to SR 522 | Kiewit Construction Co. | Brian Nielsen | 18 | 22 | 31 |

Source: WSDOT Construction Office and WSODT Project Control and Reporting

Employment for Ongoing Nickel Projects

| Project | Contractor | WSDOT Project Engineer | Number of Subcon- tractors | Jan - Mar. 2006 | April - July 2006 |
|---|-------------------------------|---------------------------|----------------------------------|--------------------|----------------------|
| I-5, Pierce Co. Line to Tukwila I/C - HOV | Icon Materials | Stanley Eng | 29 | 45 | 83 |
| SR 9/228th St SE to 212th St SE (SR 524) - Widen to 5 lanes, Stg. 2 | Wilder Construction Co. | John Chi | 23 | 7 | 18 |
| SR 9/SR 522 to 228th S SE - Widening | For construction efficiencies | , this project combined | with the above | | |
| SR 18, Covington Way to Maple Valley | Terra Dynamics, Inc. | Derek Case | 4 | 9 | 2 |
| SR 18, Maple Valley to Issaquah/Hobart Rd. | Atkinson Construction | Derek Case | 45 | 33 | 33 |
| SR 161, Jovita Blvd to S 360th St. | Tri-State Construction, Inc. | Messay Shiferaw | 27 | 51 | 32 |
| SR 527, 132nd St. SE to 112th St SE | KLB Construction | Marlin Lenssen | 43 | 30 | 21 |
| I-5/S 48th to Pacific Avenue - HOV | Kiewit Pacific Co. | Howard Diep | 66 | 40 | 54 |
| SR 7/SR 507 to SR 512 - Safety | Scarsella Bros., Inc. | Troy Cowan | 36 | 3 | 15 |
| | | | | | |



Construction Safety and Employment

| Employment for Ongoing Nicke | el Projects, continued | WSDOT Project | Number of Subcon- | Employment Jan - Mar. | Employment April - July |
|---|-----------------------------------|-----------------------|----------------------|--------------------------|----------------------------|
| Project | Contractor | Engineer | tractors | 2006 | 2006 |
| SR 16/I-5 to Tacoma Narrows Bridge - HOV | Tri-State Construction, Inc. | Dave Ziegler | 73 | 87 | 85 |
| I-5/Salmon Creek to I-205 - Widening | Hamilton Construction | Casey Liles | 75 | 39 | 42 |
| SR 24/I-82 to Keys Road-Add Lanes | Max J. Kuney Co. | Paul Gonseth | 39 | 49 | 73 |
| SR 240/I-182 to Richland Y - Add Lanes | Icon Materials | Moe Davari | 72 | 42 | 43 |
| SR 240/Richland Y to Columbia Ctr Add Lanes | For construction efficiencies | this project combined | I with the above | | |
| SR 395, NCS-Francis Ave to Farwell RD | KLB Construction | Robert Hilmes | 23 | 38 | 32 |
| SR 16 Union AVE to Jackson-HOV | Tri-State Construction, Inc. | Dave Ziegler | 73 | N/A | 85 |
| I-5, Roanoke Vacinity Noise Wall Stg. 2 | Wilder Construction Co. | Stanley Eng | 17 | N/A | 3 |
| SR 202, SR 50 to Sahalee Way Stg. 2 Wetland Mitigation | Northwest Construction, Inc. | Biran Dobbins | 10 | N/A | 2 |
| I-90, Eastbound Off-Ramp to SR 18 Phase 2-Signal | KLB Construction, Inc. | Julia Mizuhata | 1 | N/A | |
| SR 31, Metaline Falls to Int'l Border | M.A. Deatley Const., Inc. | Robert Hilmes | 21 | N/A | 23 |
| I-90/Argonne RD to Sullivan RD | Scarsella Bros., Inc. | Darrel McCallum | 32 | N/A | 1 |
| SR 16, 36th ST to Olympic DR - HOV | Woodworth & Co., Inc. | Dave Zeigler | 14 | N/A | 1 |
| SR 3, SR 303 Interchange-New Ramps (WAAGA Way) | Scarsella Bros., Inc. | Ray Arnold | 16 | N/A | 21 |
| SR 202, JCT 292 AVE SE | Transtech Electric, Inc. | Marlin Lenssen | 8 | N/A | 4 |
| SR 207, Wenatchee River Bridge 207/4 Rail Retrofit | Frank Gurney, Inc. | Kevin Waligorski | 2 | N/A | 2 |
| US 12, Region Wide Guardrail Upgrade | Frank Gurney, Inc. | Paul Gonseth | 1 | N/A | 10 |
| SR 543, I-5 to Int'l Boundary | IMCO General Const., Inc. | Chris Damitio | 15 | N/A | 14 |
| I-90, Moses Lake Area, Potato Hill RD - Bridge Clearance | Weaver Construction Co. | Mlke Fleming | 17 | N/A | 7 |
| SR 9, Nooksack RD Vic. to Cherry ST | IMCO General Const., Inc. | Chris Damitio | 14 | N/A | 11 |
| SR 20, Troxell Rd. to Cornet Bay Rd, | G.G. Excavation, Inc. | Dave Crisman | 24 | N/A | 14 |
| SR 167, 15th ST SW to S 180th ST STG 3 | Icon Materials, A Division of CPM | Stanley Eng | 33 | N/A | 52 |
| SR 516, 208th and 209th AVE SE | Road Const. NW, Inc. | Stanley Eng | 14 | N/A | 4 |
| SR 262, 244th AVE NE Intersection Signalization | Tri-State Construction, Inc. | David Lindberg | 1 | N/A | |
| I-5, SB Ramps at SR 11 | Wilder Construction Co. | Dave Crisman | 20 | N/A | 7 |
| SR 539 Ten-Mile RD to SR 546 | American Const. Co., Inc. | Chris Damitio | 1 | N/A | 3 |
| SR 532, Northbound Interchange Ramps | Trimaxx Construction | Amir Ahmadi | 13 | N/A | 3 |
| I-5, 52nd AVE W to SR 520 Paving and Safety SB Paving | Wilder Construction Co. | Marlin Lenssen | 8 | N/A | 2 |
| SR 7, SR 507 tp SR 512 Safety | | | | | |

Source: WSDOT Construction Office and WSODT Project Control and Reporting

| Employment and Safety Numbers for All Nickel Projects - Totals ¹ | Number of | Employment | Employment |
|---|-------------|------------|------------|
| | Subcontrac- | Jan - Mar. | Apr - June |
| | tors | 2006 | 2006 |
| | 600 | 737 | 1099 |

Source: WSDOT Construction Office and WSDOT Project Control and Reporting

Environmental Documentation, Review, Permitting and Compliance

Endangered Species Act Compliance

The Endangered Species Act (ESA) requires that all projects with federal funds or permits be evaluated for effects and potential impacts the project may have on listed endangered and threatened species. Projects that will result in impacts to listed species undergo consultation either informally or formally with the Services: US Fish and Wildlife Service (USFWS) and/or the National Oceanic and Atmospheric Administration/National Marine Fisheries Service (NOAA Fisheries). WSDOT projects with no effect on listed species do not undergo consultation with the Services.

Nickel Projects 2005-07 Biennium Construction Season

ESA review has been completed on 21 of the 31 Nickel Projects that have not yet gone to advertisement for the 2005-07 biennium. Ten projects required consultations with NOAA Fisheries and/or UWFWS and 11 did not require consultation, either because they will have no effect or because they utilized existing programmatic biological opinions to avoid project-specific consultations. Of the ten that require consultation, five lack sufficient information to determine if consultation will be required, four require informal consultation, and one will undergo formal consultation.

Nickel Projects 2007 and Beyond

Currently, WSDOT has completed consultation on two projects planned for the end of 2007 and beyond. These are the *I-205/Mill Plain Exit (112th Connector) Direct Ramp* and the *US 2 Dryden Signal*. In addition, the *US 2/US 97 Peshastin East Interchange* project is currently under consultation with both services. On the docket, there are ten biological assessments planned for projects in late 2007 and beyond.

Transportation Partnership Program (TPA) Projects

For the 2005-07 biennium, nine TPA projects have completed ESA review. These included three informal consultations and six programmatic or no-effect reviews. In addition, 13 projects

either have biological assessments (BAs) that are currently under preparation, or are awaiting design information to begin preparing for the BA.

PEF Projects

At this time, 151 PEF projects have yet to go to ad in the 2005-07 biennium. Of these projects, 58 projects do not require consultation and 32 do not have enough information to determine if consultation is necessary. ESA review has been completed on 43 projects. Five of the 43 projects involved consultation with the Services: SR 539/Horton Rd to Tenmile Rd, SR 530/Lake Cavanaugh Rd to Montague Creek, SR 548/Terrell Creek, SR 522/Paradise Lake Rd to Snohomish River, and US 2/Ebey Island Viaduct to Ebey Slough Bridge. The I-405/Swamp Creek Vicinity project is currently undergoing informal consultation with both Services.

Ferry and Rail Projects

Four ferry projects are currently under consultation with the Services: Anacortes 3rd Slip – Dolphin Replacement, Anacortes Tie-up Slip, Bainbridge Dock Widening, and the Eagle Harbor Building Maintenance. Of these, Eagle Harbor Building Maintenance and Bainbridge Dock Widening have completed consultation with USFWS, and the Anacortes Tie-up Slip has completed consultation with NOAA Fisheries. The Bainbridge Dock Widening project has been in the consultation process since mid-October 2005. The other three projects have been under consultation with the Services since January 2006. The Lopez Island Dolphin Replacement project completed consultation with NOAA Fisheries in May 2006.

The Rail Office has eight projects planned between now and the end of the next biennium. Of these, four do not require consultation with the Services. The other four will not begin consultation until sometime in 2007.

ESA Compliance Status for

| Number of Projects | 2005-07 Nickel Projects | 2007 and Beyond Nickel Projects | 2005-07 TPA Projects | 2005-07 PEF Projects | 2005-07 Ferry & Rail Projects |
|--|----------------------------|------------------------------------|-------------------------|-------------------------|----------------------------------|
| Projects under review at the Services ¹ | 0 | 1 | 0 | 1 | 5 |
| Biological Assessment underway | 5 | 10 | 13 | 17 | 0 |
| Projects which lack sufficient information to start the Biological Assessment ² | 5 | 26 | 16 | 32 | 4 |
| WSDOT anticipates consultation will not be required | 11 | 0 | 5 | 58 | 3 |
| Endangered Species Act review complete | 10 | 2 | 9 | 43 | 1 |

¹This means that WSDOT does not yet have enough information regarding the design of the project to begin a biological assessment.

²Projects that have completed ESA review include those that did not require consultation (no effect or programmatic) and those requiring consultation (formally or informally)

Environmental Documentation, Review, Permitting and Compliance

Endangered Species Listing Update

As mentioned in the March 2006 *Gray Notebook* (p. 37), the number of formal consultations on projects is expected to increase, particularly for projects in or around Puget Sound. The listing of Southern Resident killer whale (orca) as an endangered species, and the recent proposal to list Puget Sound steelhead as a threatened species, have directly affected WSDOT projects planned for construction in the next year.

Killer Whale Endangered Species Listing Update

The guidance for addressing impacts of projects on the killer whale, expected in April 2006, has not yet been provided by the NOAA Fisheries. Any highway project in or adjacent to the Puget Sound could be affected by this listing.

The killer whale endangered species listings also changed in June 2006, when the proposed designation of critical habitat for Southern Resident killer whales expanded to the Puget Sound, the U.S. portion of the Strait of Juan de Fuca, the waters surrounding the San Juan Islands, the southern Strait of Georgia, and areas directly offshore of Skagit and Whatcom. The federal government identified three essential features necessary to the conservation of killer whales that may require special management considerations or protections: water quality, prey species, and passage conditions to allow for migration, resting, and foraging. The final rule designating critical habitat is expected by November 2006.

For WSDOT, this means that once critical habitat is designated, multiple construction projects will need to reinitiate either informal or formal consultation. It also means that changes to stormwater runoff regulations and contaminant thresholds are possible. This could require changes in designs for WSDOT projects. In some cases, these designs may already be comple and revisions will still be required.

Steelhead Listing Update

Due to increased consultation backlogs at the federal level from the killer whale listing, and the fact that the steelhead listing may not go into effect until September 2007, NOAA Fisheries has not been conferencing on steelhead. This could result in potential project delays and increased project delivery costs for projects that may not complete construction before the listing goes into effect.

Consultant Qualification Program

As of June 1, 2006, WSDOT's new consultant qualification program went into effect. The program, designed to ensure that all consultants preparing biological assessments for WSDOT, are held to standards for writing high-quality reports, is expected to minimize the requests for additional information which slow-down the consultation process. At this time, two training classes have been held, qualifying 88 consultant biologists.

Worker Safety: Quarterly Update

WSDOT Workers: Recordable Injury and Illness Rates

WSDOT continues to build strategies based on the idea "all injuries are preventable". WSDOT is committed to progress toward a zero injury rate. This report discusses three reporting measures: fiscal year-to-date recordable injury rates, number of recordable injuries by region, and recordable injury rates by quarter. Each measurement will improve WSDOT's ability to monitor and develop innovative strategies to address injury rates.

The following section presents the North American Industry Classification (NAICS) data using a "fiscal year-to-date" reporting method. This new reporting method will assist WSDOT in tracking and comparing injury rates nationally, using the Bureau of Labor and Statistics (BLS) benchmark. Due to switching from calendar year to fiscal year (FY), FY 2005 data is not available (see the March 31, 2006 *Gray Notebook*, p. 40). Fiscal year is from July 2005 through June 2006.

OSHA-Recordable Injury and Illness Rates: Fiscal Year-to-Date

WSDOT's primary industry reporting code for injuries and illnesses includes workers engaged in the construction of highways, streets, roads, airport runways, public sidewalks, and bridges. Under the NAICS, highway maintenance and engineering workers are combined into one reporting group: Highway, Street, and Bridge Construction workers. At the end of the FY 2006, the year-to-date injury rate for WSDOT Highway, Street, and Bridge Construction workers was 8.3 per 100 workers.

Ferry System

The Ferry System operates a ship repair facility, urban transit system, and an inland water transportation system. The Ferry System will measure worker injuries under the NAICS code Inland Water Transportation, which now includes all Ferry workers as opposed to only Ferry Vessel and Terminal workers. At the end of FY 2006, the year-to-date recordable injury rate for Inland Water Transportation workers was 10.1 per 100 workers.

Injuries by Type

The graph at the bottom right shows types of injury totals for WSDOT maintenance, highway engineering, ferry workers and administrative staff in the fourth quarter of FY 2006. The total number of injuries was 126, which was an additional 53 from the preceding quarter.

WSDOT implemented its new data collection process in January 2006. It is likely that this enhanced focus and process will lead to recordable injury rates which are slightly higher than the 2005 recaptured data. However, WSDOT maintains its goal that all injuries can be prevented (for more information, see the March 31, 2006 *Gray Notebook*, p. 40).

- Maintenance workers incurred 48 injuries, 38% of all WSDOT injuries this quarter.
- Highway engineering workers had a total of 29 injuries this quarter, 23% of total injuries.
- WSDOT ferry workers incurred 44 injuries, 35% of injuries for the fourth quarter of 2006.
- WSDOT administrative staff had a total of 5 injuries, 4% of total injuries.

Recordable Highway, Street, and Bridge Construction Worker Injuries & Illnesses: Fiscal Year-to-Date

OSHA-Recordable Injury Rate per 100 Workers,1

| Fiscal Year 2006 | Cumulative-to-Date 2006 |
|------------------|-------------------------|
| FY Qtr 1 | 14.3 |
| FY Qtr 2 | 9.7 |
| FY Qtr 3 | 8.2 |
| FY Qtr 4 | 8.3 |

2004 BLS Benchmark 6.4 (calendar year) Source: WSDOT Safety Office

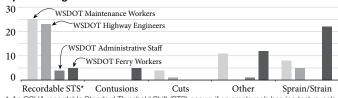
Recordable Inland Water Transportation Worker Injuries & Illnesses Illnesses: Injury Rate, Fiscal Year-to-Date

OSHA-Recordable Injury Rate per 100 Workers¹

| Fiscal Year 2006 | Cumulative-to-Date 2006 |
|------------------|-------------------------|
| FY Qtr 1 | 9.0 |
| FY Qtr 2 | 9.3 |
| FY Qtr 3 | 9.7 |
| FY Qtr 4 | 10.1 |

2004 BLS Benchmark 4.9 (calendar year) Source: WSDOT Ferry System

Number of Work Injuries by Type April Through June 2006



* An OSHA recordable Standard Threshold Shift (STS) occurs if an employee's hearing test reveals that the employee experienced a work-related STS in hearing in one or both ears, and the employee's total hearing is 25 dB or more above audiometric zero (averaged at 2000, 3000 and 4000 Hz) in the same ear(s) as the STS, WSDOT must consider the case recordable. WSDOT reports these hearing loss injuries without regard to whether they are work related or not.

Source: WSDOT Safety Office

'OSHA "Recordable Injuries and Illnesses" is a standard measure that includes all related deaths and work related illnesses and injuries which result in death, loss of consciousness, days away from work, days of restricted work, or medical treatment beyond first aid. The U.S. Bureau of Labor Statistics provides the selected 2004 national average benchmarks. One worker equals 2,000 hours per year.

Worker Safety: Quarterly Update

Safety Stand Down

WSDOT held a Safety Stand Down on July 10, 2006 to inform employees about the new safety initiative introduced by WSDOT's Secretary and executive staff. The majority of personnel participated in a statewide gathering and group discussions on workforce safety. Three messages prevailed:

- All injuries are preventable,
- WSDOT's safety record is not as good as it should be, and
- Injury rates are too high.

The new Executive Order establishes a goal to reduce all OSHA-recordable injuries and illnesses 30% by the end of fiscal year (FY) 2007. In FY 2006, WSDOT experienced 466 OSHA-recordable injuries and illnesses. The targeted goal for FY 2007 is a decrease of 140 injuries, or 326 injuries

WSDOT's Plan to Reduce Injury Rates

Observance of basic safety provisions, and heightened awareness and accountability for safety results at every level of WSDOT, are the foundation of this new safety emphasis. Equally important is the expectation that each individual is accountable to ensure work environments are safe. When accidents happen, WSDOT will learn from the factors involved so preventive measures are taken to avoid similar future accidents. The Regional Safety Managers play a key role to train those who investigate accidents. As emphasized during the Safety Stand Down, everyone has a role to assure the new safety initiative is a success.

Number of OSHA-recordable Injuries and Illnesses

The table at the below reports the total number of injuries in FY 2006. It provides a regional breakdown of injuries for each quarter, and is separated into three reporting categories: Maintenance, Engineering, and Administrative.

Highway Maintenance Workers

The fourth quarter of FY 2006, highway maintenance workers reported 48 OSHA-recordable injuries. This was an increase of 10 injuries compared to the previous quarter. As of June 30, 2006, there were a total of 347 lost workdays associated with the 48 injuries; 41 of the injuries resulted in five or fewer lost workdays. OSHA-recordable hearing losses accounted for 25 (52%) of the Highway Maintenance injuries sustained in the fourth quarter of FY 2006. The most frequently injured part of the body was the ear (52%).

Highway Engineering Workers

The fourth quarter of FY 2006, highway engineering workers reported 29 OSHA-recordable injuries. This was an increase of 22 injuries compared to the previous quarter. As of June 30, 2006, there were a total of 20 lost workdays associated with the 29 injuries; 28 of the injuries resulted in five or fewer lost workdays. Occupational Illnesses (hearing loss) accounted for 79% of engineering worker injuries, the ear was the most frequently injured part of the body.

Ferry System

The fourth quarter of FY 2006, ferry workers reported 44 OSHA-recordable injuries, an increase of four injuries compared to the previous quarter. As of June 30, 2006, there were a total of 361 lost workdays associated with the 44 injuries; 30 of the injuries experienced five or fewer lost workdays. Strains/ Sprains accounted for 50% of ferry worker injuries. The most frequently injured part of the body involved multiple parts of the body.

Number of OSHA Recordable Injuries by Quarter: WSDOT Regions and Ferry System

FY 2006 (July 2005 - June 2006) Target Goal: 30% Reduction in OSHA-Recordable Injuries

| | | Mainte | enance | | Engineering | | | Admini | strative | | | | |
|---------------|-----|--------|--------|----|-------------|----|----|--------|----------|----|----|----|-------|
| Regions | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Total |
| Northwest | 23 | 10 | 7 | 13 | 12 | 4 | 1 | 6 | 4 | 0 | 0 | 1 | 81 |
| North Central | 16 | 0 | 2 | 6 | 5 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 33 |
| Olympic | 14 | 9 | 12 | 5 | 4 | 2 | 4 | 2 | 1 | 0 | 1 | 0 | 54 |
| Southwest | 6 | 3 | 4 | 8 | 2 | 1 | 0 | 4 | 0 | 0 | 0 | 2 | 30 |
| South Central | 12 | 5 | 5 | 5 | 3 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 33 |
| Eastern | 20 | 4 | 8 | 10 | 5 | 0 | 1 | 6 | 1 | 0 | 0 | 1 | 56 |
| Headquarters | 1 | 1 | 0 | 1 | 8 | 2 | 1 | 8 | 0 | 0 | 0 | 1 | 23 |
| Sub-Total | 92 | 32 | 38 | 48 | 39 | 10 | 7 | 29 | 9 | 0 | 1 | 5 | 310 |
| Ferry System | 34 | 36 | 39 | 44 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 156 |
| WSDOT Total | 126 | 68 | 77 | 92 | 39 | 10 | 7 | 29 | 10 | 1 | 2 | 5 | 466 |

Source: WSDOT Safety Office & Ferry System

Worker Safety: Quarterly Update

Quarterly Injury Rates

OSHA-Recordable Injury and Illness Rates: per Quarter

Beginning with this edition, WSDOT will report quarterly recordable injury rates for Highway, Street, and Bridge Construction workers, and for Inland Water Transportation workers. WSDOT will use the OSHA-recordable injury rates to compare measures across quarters. Unlike the cumulative rate presented on p. XX, this measure will not be used to compare recordable injury rates nationally. Quarterly information will be used to analyze WSDOT's recordable injury rate trends and to monitor progress towards the goal that all injuries are preventable.

The tables to the right show quarterly recordable injury rates per 100 workers (see gray box below for calculation used to develop quarterly injury rates). The quarterly rates presented are not comparable to previous *Gray Notebook* editions.

Highway, Street, and Bridge Construction Workers

In the fourth quarter of FY 2006, the quarterly injury rate for Highway, Street, and Bridge Construction workers was 2.1 injuries and illnesses per 100 workers which was an increase from the previous quarter rate of 1.3.

Ferry System

In the fourth quarter of FY 2006, the quarterly injury rate for Inland Water Transportation workers was 2.8 per 100 workers. This number was an increase from the previous quarter rate of 2.6.

How WSDOT Calculates Quarterly Injury Rates

WSDOT reports quarterly data for injuries and illnesses by totaling all recordable injuries and illnesses reported in a quarter. This number is then divided by all of the man-hours worked and multiplied by 50,000. The resulting number represents the quarterly number of injuries and illnesses per 100 workers (see equation below).

Equation:

(# of injuries/# of man-hours worked) X 50,000 = Quarter Rate

Recordable Highway, Street, and Bridge Construction Worker Injuries & Illnesses

Quarterly OSHA-Recordable Injury Rates per 100 Workers¹

| | FY 2006 |
|----------|---------|
| FY Qtr 1 | 3.6 |
| FY Qtr 2 | 1.2 |
| FY Qtr 3 | 1.3 |
| FY Qtr 4 | 2.1 |

Source: WSDOT Safety Office

Recordable Inland Water Transportation Worker Injuries & Illnesses: Ferry System

Quarterly OSHA-Recordable Injury Rates per 100 Workers¹

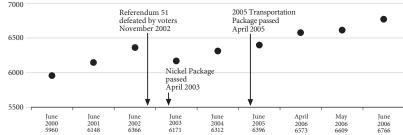
| | FY 2006 |
|----------|---------|
| FY Qtr 1 | 2.2 |
| FY Qtr 2 | 2.4 |
| FY Qtr 3 | 2.6 |
| FY Qtr 4 | 2.8 |

Source: WSDOT Ferry System

¹OSHA "Recordable Injuries and Illnesses" is a standard measure that includes all related deaths and work related illnesses and injuries which result in death, loss of consciousness, days away from work, days of restricted work, or medical treatment beyond first aid. The U.S. Bureau of Labor Statistics provides the selected 2004 national average benchmarks. One worker equals 2,000 hours per year.

Workforce Level and Training: Quarterly Update

One indicator of the agency's workforce size is the Number of Permanent Full-Time Employees at WSDOT current number of permanent full-time employees on staff. The total number of full-time employees does not include permanent part-time, seasonal, or on-call workers. The chart to the right shows the total number of full-time employees at various points since the end of fiscal year 2000, with significant mandates identified. The total number of full-time equivalencies (FTE's) will generally exceed the number of permanent full-time employees due to seasonal and part-time workers being funded from "FTE" allotments.



Source: DOP Data Warehouse, WSDOT and WSF Payroll

Required Training: All WSDOT Workers

This quarter a total of 4,126 workers attended trainings offered by WSDOT (this number includes all individuals who attended one or more training this quarter). This total is 2,251 more than the previous quarter. At the end of the second quarter, an average of 67% of WSDOT workers were in compliance with all training requirements listed below. This is 4% more than the preceding quarter.

The percent in compliance for the Office of Equal Opportunity (OEO) training courses has been gaining since the manager and non-manager versions of the classes were merged, and since class size was increased significantly. WSDOT's goal is to reach a 90% compliance for all required (mandatory)

courses. The Office of Equal Opportunities (OEO) revised its courses in June 2002. The courses are provided in three sections: Disability Awareness, Sexual Harassment/Discrimination, and Valuing Diversity. These three trainings require refresher courses at the five-year mark, but have not been in existence long enough to require the five-year refresher. The "Ethical Standards" refresher requirement is every three years. "Security Awareness" and "Violence that Affects the Workplace" do not require a refresher course.

Required Training for all WSDOT Workers

April 2006 - June 2006

| Training Courses | Workers Requiring Training | Basic Training Completed to Date | Workers Needing Basic Training | Workers Needing Refresher Training | Completed Training Reporting Quarter | Total in Compli- ance | % in Compli- ance | % Change from Previous Quarter |
|-----------------------------------|----------------------------------|---|---|---|---|-----------------------------|-------------------------|--|
| Disability Awareness | 7678 | 3448 | 4230 | N/A ¹ | 1297 | 3448 | 45% | 16% |
| Ethical Standards | 7678 | 7366 | 312 | 1124 ³ | 1233 | 6242 | 81% | 2% |
| Security Awareness | 7678 | 6295 | 1383 | N/A ² | 16 | 6295 | 81% | -4% |
| Sexual Harassment/ Discrimination | 7678 | 4867 | 2811 | N/A¹ | 719 | 4867 | 63% | 5% |
| Valuing Diversity | 7678 | 4049 | 3629 | NA¹ | 713 | 4049 | 53% | 8% |
| Violence that Affects the | 7678 | 6057 | 1621 | NA^2 | 148 | 6057 | 79% | -2% |

¹These courses require refresher trainings every five years, but have not been in existence long enough to meet that requirement.

Source: WSDOT, Office of Human Resources, Staff Development

²Do not require refresher courses.

³Requires refresher courses every three years.

Workforce and Training: Quarterly Update

Required Training: Maintenance Workers

WSDOT's goal is to reach 90% compliance for statutorily required maintenance employee training. Of the 25 statutorily required maintenance courses, 13 are identified in the table below. A single worker might require multiple courses, depending on job and task assignment. Project workload and maintenance activities directly relate to compliance levels.

Managers and trainers balance project delivery and training compliance to assure training occurs on a continual basis. Additionally, of the 25 statutorily required courses, 10 require refresher courses. As of June 30, 2006, five of the 25 required maintenance worker courses have achieved a 90% compliance rate.

| Safety Courses | Workers Requiring Training | Basic Training Completed to Date | Completed Basic Training Reporting Quarter | Workers Needing Basic Training | Completed Refresher Training Reporting Quarter | Workers Needing Refresher Training | Total in Compli- ance | % in Compli- ance: Statewide | % Change from Previous Quarter |
|------------------------------------|----------------------------------|---|--|---|--|---|-----------------------------|---------------------------------------|--------------------------------|
| Blood Bourne Pathogens | 566 | 514 | 27 | 52 | 128 | 203 | 311 | 55% | 18% |
| First Aid | 1458 | 1389 | 45 | 69 | 246 | 162 | 1227 | 84% | 2% |
| Hearing Conservation | 1335 | 1270 | 23 | 65 | 436 | 296 | 974 | 73% | -5% |
| Personal Protective Equip- ment | 1378 | 1162 | 158 | 216 | 0 | 0 | 1162 | 84% | 5% |
| Fall Protection | 724 | 618 | 69 | 106 | 0 | 0 | 618 | 85% | 2% |
| Flagging & Traffic Control | 1118 | 1091 | 16 | 27 | 80 | 81 | 1010 | 90% | -2% |
| Safe Driving - Eversafe™ | 1175 | 1001 | 55 | 174 | 0 | 0 | 1001 | 85% | 3% |
| Maintenance Courses | | | | | | | | | |
| Drug Free Workplace | 345 | 310 | 43 | 35 | 0 | 0 | 310 | 90% | 1% |
| Forklift | 1131 | 1022 | 27 | 109 | 0 | 0 | 1022 | 90% | 1% |
| Hazardous Mat Awareness | 817 | 776 | 34 | 41 | 244 | 218 | 558 | 68% | -12% |
| Aerial Lift | 178 | 161 | 12 | 17 | 0 | 0 | 161 | 90% | -1% |
| Bucket Truck | 392 | 337 | 25 | 55 | 0 | 0 | 337 | 86% | 5% |
| Excavation, Trench & Shoring | 398 | 347 | 77 | 51 | 0 | 0 | 347 | 87% | 13% |

Total Compliance of Each Required Maintenance Training: All WSDOT Regions¹

April 2006 - June 2006 (Total indicates percentage in compliance; Change indicates percent change from previous quarter; N/A indicates no individuals require training for identified course)

| • | N | IWR | 1 | NC | (| OR | s | WR | s | CR | ı | ER | | HQ |
|----------------------------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| Safety Course | Total | Change |
| Blood Bourne Pathogens | 19% | +7% | 90% | +1% | 66% | +62% | 69% | -11% | 94% | +61% | 96% | +85% | 0% | N/A |
| First Aid | 69% | -6% | 88% | +4% | 89% | +4% | 96% | -1% | 90% | +12% | 91% | +9% | 0% | N/A |
| Hearing Conservation | 84% | +6% | 90% | +14% | 77% | -1% | 95% | +20% | 1% | -74% | 94% | +10% | N/A | N/A |
| Personal Protective Equipment | 77% | -1% | 78% | +2% | 76% | +14% | 96% | 0% | 94% | +2% | 94% | +6% | N/A | N/A |
| Fall Protection | 77% | +3% | 100% | +10% | 79% | -2% | 95% | -1% | 93% | +5% | 98% | 0% | N/A | N/A |
| Flagging | 86% | -3% | 96% | 0% | 92% | +2% | 92% | -5% | 85% | -3% | 97% | 0% | N/A | N/A |
| Safe Driving - Eversafe™ | 88% | +4% | 91% | -1% | 100% | 0% | 55% | 0% | 88% | +7% | 94% | +4% | 67% | N/A |
| Maintenance Courses | | | | | | | | | | | | | | |
| Drug Free Workplace | 88% | -1% | 86% | +11% | 90% | 0% | 100% | +8% | 94% | -3% | 89% | 0% | 0% | N/A |
| Forklift | 88% | -1% | 95% | +7% | 84% | +3% | 94% | -2% | 93% | -1% | 96% | +4% | N/A | N/A |
| Haz Mat Awareness | 79% | -8% | 47% | -19% | 27% | +18% | 84% | -10% | 33% | -52% | 92% | +22% | N/A | N/A |
| Aerial Lift | 78% | +2% | 70% | -8% | 100% | N/A | 97% | -1% | 100% | +14% | N/A | N/A | N/A | N/A |
| Bucket Truck | 71% | +4% | 100% | +9% | 96% | +6% | 98% | 0% | 98% | +11% | 100% | 0% | N/A | N/A |
| Excavation, Trench & Shoring | 79% | 0% | 83% | +24% | 73% | +16% | 92% | -1% | 99% | +26% | 82% | -1% | N/A | N/A |

Source: WSDOT, Office of Human Resources, Staff Development

NWR - Northwest Region; NCR - North Central Region; OR - Olympic Region; SWR - Southwest Region; SCR - South Central Region; ER - Eastern Region; HQ - Headquarters

Construction Contracts: Annual Update

Contract Award Amount to Engineer's Estimate

118 Construction Contracts Awarded

WSDOT awarded 118 highway construction contracts between July 1, 2005 and June 30, 2006 (FY 2006). For every contract awarded, WSDOT tracks the difference between the contract award amounts and the engineer's estimate. The total award amount of all contracts for FY 2006 totaled \$361,514,031, which was 4.5% percent above the total engineer's estimates of \$345,802,088.

The scatter plot to the right shows the award value for each contract and the total percent above or below the engineer's estimate. Fifty-four contracts (46%) were awarded below the engineer's estimate. The additional 64 construction contracts were over the engineer's estimate.

WSDOT reviews all bids received. When a low bid exceeds the engineer's estimate by more than 10%, a formal justification is required prior to award. WSDOT will then examine the reasons bids were higher than anticipated and if re-advertisement would lead to a lower cost. Unless there are changes to the project WSDOT could make to lower the cost or increase the likelihood of additional competition in the bidding pool, re-advertisement is usually not a cost effective alternative.

Selected contracts circled in the scatter plot to the right had a significantly higher cost over-run. These include:

SR 543, I-5 to International Boundary

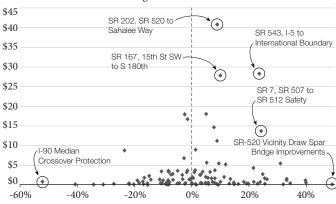
The contract award totaled \$28.3 million, 24% over the engineer's estimate as a result of oil and concrete price escalation. WSDOT received only two bids for this project, partially due to its remote location.

SR 7, SR 507 to SR 512 Safety improvements

The contract totaled \$13.7 million, 24% over the engineer's estimate. The increase was partially due to the rapid increase in fuel prices.

Individual Contracts: Award Amount to Engineer's Estimate

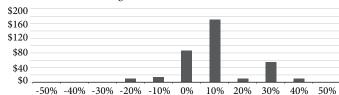
Percent Award Above or Below Engineer's Estimate, Dollars in Millions



Source: WSDOT Construction Office

Distribution of Contract Value Over/Under Award Amount to Engineer's Estimate

Percent Above or Below Engineer's Estimate, Dollars in Millions



Source: WSDOT Construction Office

The histogram above shows the distribution of contract award values that were above or below WSDOT's estimate. For example, approximately \$171 million in contracts were awarded between 0-10% above the estimate.

WSDOT Revisits its Estimating Practices

WSDOT aggressively monitors project costs to funnel this information back into current estimates. WSDOT obtained new software to allow engineers access to more recent bid histories. This will better align the estimates to current market conditions.

Highway Construction Contracts Awarded: Year-to Year Comparison¹

| | FY2002 | FY2003 | FY2004 | FY2005 | FY2006 |
|--|---------------|---------------|---------------|---------------|---------------|
| Number of contracts awarded | 177 | 176 | 129 | 141 | 118 |
| Total award amount for highway contracts | \$250,561,516 | \$314,534,831 | \$389,592,349 | \$500,099,488 | \$361,514,031 |
| Total engineer's estimate for contracts | \$277,091,361 | \$355,420,644 | \$398,923,582 | \$511,364,300 | \$345,802,088 |
| Average % total awards were above/below the estimate | -7.5% | -6.5% | -1.4% | 1.3% | 1.9% |
| % total award is above/below the engineer's estimate | -9.5% | -11.5% | -2.3% | -2.2% | 4.5% |
| Combined contract value awarded below the estimate | 71.7% | 84.0% | 53.3% | 74.4% | 30.5% |
| Number of contracts awarded below the estimate | 129 | 123 | 85 | 77 | 54 |
| % of contracts awarded below the estimate | 72.9% | 69.9% | 65.9% | 54.6% | 45.8% |

Does not include the Tacoma Narrows Bridge and the Hood Canal Bridge, Bridge Design Build Projects, or emergency contracts.

Source: WSDOT's Construction Office

Construction Contracts: Annual Update

Contract Final Costs to Award Amount

WSDOT continually evaluates the balance of contract risks to both the owner (WSDOT) and the contractor. WSDOT allocates risk to the party in the best position to optimize the outcome. WSDOT further works with the contractor to help them manage the risk. For instance, WSDOT can make partial payments to contractors for materials before they are permanently incorporated in the project. Contractors can then better manage material cost escalation risks by locking in prices after the contract is awarded. WSDOT also uses the Cost Reduction Incentive Proposal process, which allows the contractor to suggest an alternate design. When an alternative design is suggested, the contractor takes on more risk in the constructability and design, but shares in the cost savings.

114 Construction Contracts Completed

WSDOT completed 114 highway construction contracts in FY 2006. For every completed contract, WSDOT tracks final construction costs compared to the original engineers estimate and the award amount. WSDOT's goal is for the final construction costs to be less than 10% above the award amount.

Final Costs to Award Amount

The total final cost of contracts completed in FY 2006 was \$225, 445,739. This exceeds the total award amount of \$201, 782, 248 by 11.7%.

Selected contracts circled in the scatter plot to the right exceeded the 10% threshold and include:

SR 433, Lewis and Clark Bridge Deck Replacement:

\$6.1 million (34%) cost over-run occurred to cover required structural changes.

SR 529, Bridges 529/20 E&W and 529/25 Electrical/ Mechanical Rehabilitation

\$5.4 million (70%) cost over-run occurred due to needed traffic control modifications and payment to accelerate the work.

I-5, Pierce County Line to Tukwila HOV

A \$4.3 million (26%) cost over-run occurred to pay for changes related to the building of a wall.

Completed Contract: Final Costs to Award Amount

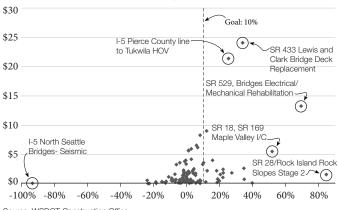
FY2002 FY2003 FY2004 FY2005 FY2006 Number of highway contracts completed 122 175 Total final cost for highway contracts \$213,953,965 \$375,244,919 \$294,482,387 \$294,988,223 \$225,445,739 Total award amount for highway contracts \$196,000,000 \$351,525,709 \$274,495,656 \$280,396,785 \$201,782,248 Average % final costs exceeded award 1.8% 3.8% 2.9% 3.9% 3.4% % final cost exceeded award amount 9.2% 6.7% 7.3% 5.2% 11.7% % of contract values less than 10% above award 66.0% 65.3% 45.1% 76.3% 55.1% Number of contracts less than 10% above award 137 121 98 115 92 % of contracts less than 10% above the award 80.3% 78.3% 78.2% 78.1% 80.7%

Source: WSDOT Construction Office

The scatter plot below shows the final cost of each contract and the percent above or below the award amount. The final cost for 92 contracts (81%) was less than 10% above the award. Twenty-two completed contracts were 10% above the award amount. On average, the final contract costs were 3.4% above the original award amount.

Individual Contracts: Final Costs to Award Amount

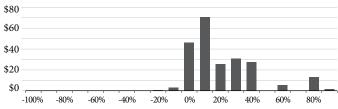
Percent Final Cost Above or Below Award, Dollars in Millions



Source: WSDOT Construction Office

Distribution of Contract Value Over/Under Final Costs to Award Amount

Percent Final Cost Above or Below Award Amount, Dollars in Millions



Source: WSDOT Construction Office

The histogram above shows the distribution of final costs above or below the contract award. For example, about \$71 million worth of contracts had a final cost between 0-10% above the original contract award amount. Just over half (55%) of the total contract value awarded had final costs at least ten percent below the award amount.

Construction Contracts: Annual Update

Contract Final Costs to Engineers Estimate

Final Costs Exceed Estimate by 1%

The final contract costs in FY 2006 totaled \$225,445,739. This exceeds the total engineer estimate of \$223,751,551 by 1%.

The scatter plot to the right shows the final cost of each contract and the percent it was above or below the engineer's estimate.

Selected contracts circled in the scatter plot to the right, had a significantly higher cost over-run. These include:

SR433, Lewis and Clark Bridge Deck Replacement

This contract had six bidders and was awarded for \$17.9 million, 37% under the engineer's estimate; it over-ran the award amount by 34%. The project still was under the estimate by 16%.

I-5, Pierce County Line to Tukwila HOV and Truck Climbing lane

The contract award of \$17 million was 8% below the engineer's estimate. It over-ran the award amount by 26% and was above the estimate by 16%.

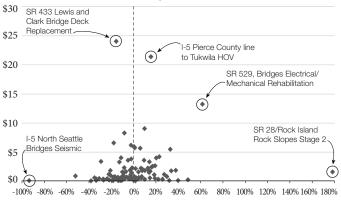
SR 529, Bridges 529/20 E&W and 529/25 Electrical/ Mechanical Rehabilitation

The contract award of \$7.8 million was 5% below the engineer's estimate. Contract cost over-ran the award amount by 70% and the estimate by 62%.

The total engineer estimate for these three projects was \$55.1 million and the total award amount was \$42.8 million. The final cost was about \$58.7 million (7%) over the award amount.

Individual Contracts: Final Costs to Engineer's Estimate

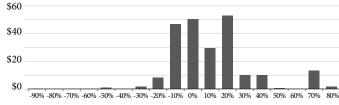
Percent Final Cost Above or Below Engineer's Estimate, Dollars in Millions



Source: WSDOT Construction Office

Distribution of Contract Value Over/Under Final Costs to Engineer's Estimate

Percent Final Cost Above or Below Engineer's Estimate, Dollars in Millions



Source: WSDOT Construction Office

The histogram above shows the distribution of final costs that were above or below the estimate. For example, approximately \$53 million in contracts had a final cost between 10-20% above the estimate. Around two-thirds (64.9%) of contract final costs were below the 10% estimate.

Completed Contracts: Final Cost to Engineer's Estimate

| | FY2002 | FY2003 | FY2004 | FY2005 | FY2006 |
|--|---------------|---------------|---------------|---------------|---------------|
| Total of construction contract estimates completed | \$215,000,000 | \$393,078,777 | \$277,017,902 | \$294,440,780 | \$223,751,551 |
| Total final cost for construction contracts ¹ | \$213,953,975 | \$375,244,919 | \$294,482,387 | \$294,988,223 | \$225,445,739 |
| % total contract values cost above/below estimate | -4.7% | -5.6% | -2.6% | 0.7% | 0.8% |
| % of contract less than 10% above award | 75.7% | 87.1% | 42.8% | 74.2% | 64.9% |
| Number of contracts less than 10% above estimate | 99 | 151 | 111 | 118 | 86 |
| % of contracts less than 10% above the estimate | 81.1% | 86.3% | 75.5% | 76.1% | 75.4% |

¹Without Sales Tax

Source: WSDOT Construction Office

Asset Management: Capital Facilities Annual Update

Program Overview

WSDOT's Capital Facilities budget for the 2005-07 biennium, including new building design, construction, and property acquisition, totals \$2.3 million. The budget for operating and maintaining the buildings for the biennium is \$33.6 million.

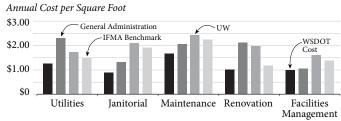
The capital facilities operating program provides funding for basic building operations, regularly scheduled maintenance, and repairs to keep buildings and sites in operational condition. The program also addresses minor environmental issues, ADA compliance, Computer Aided Facilities Management System support, major and minor renovation, and replacement projects.

Benchmarking Shows Conservation Pays Off

Comparing WSDOT's costs to operate and maintain facilities to similar organizations helps the agency gauge how well it is doing. WSDOT compares itself to the International Facilities Management Association's (IFMA) benchmark average, Washington State General Administration (GA) spending, and the University of Washington (UW) spending as a basis for benchmarking facility operating and maintenance costs.

As shown in the chart below, WSDOT spends less per square foot than the IFMA's benchmark average, the GA, and the UW. WSDOT is more economical in utilities and Facilities Management. Regarding the Janitorial, Maintenance, and Renovations costs, lower expenditures in these areas are causing increases in the WSDOT's facilities deficiency backlog. (See the next page for more information on the backlog.)

2003-2005 Biennium Benchmarks



Source: WSDOT Facilities Office

WSDOT owns more than 930 buildings and related sites, with a replacement value of approximately one-half billion dollars. This has increased from about 800 buildings last year for two reasons: newly-built facilities, and existing WSDOT structures that have been absorbed into the Facilities program. Related to the second item, the facilities office has begun to inventory storage containers and a few salt storage sheds that were constructed by WSDOT's highway maintenance program.

These 930 buildings house staff and equipment, and provide materials storage to all of the Transportation Regions. In addition to the administrative and engineering functions housed in these facilities, there are over 130 maintenance facilities and 40 mountain-top communication sites across the state. Total building space owned by the department is approximately 2.7 million square feet, on 8,857 acres.

WSDOT Implements Green Building Practices

WSDOT is required by law to provide Leadership in Energy and Environmental Design (LEED) Silver Certification on all new facilities with buildings that are more than 5,000 square feet in area. LEED Rating Criteria is a product of the U.S. Green Building Council (USBGC). The USBGC is a building industry trade group that "promote[s] buildings that are environmentally responsible, profitable and healthy places to live and work." Projects must be officially registered with the Council; after construction, the building is certified if the Green-Building-Council-Accredited professionals determine that the resulting product has met the required criteria.

WSDOT Staff Qualify for Green Building Self-Accreditation

WSDOT Facilities became a member of the U.S. Green Building Council in January 2006. Two WSDOT facilities staff members became Accredited Professionals in July 2006 by passing the national examination, and three more are in training. Having Accredited Professionals on staff means that WSDOT can certify its own sites and buildings (and those of other agencies) with existing staff, and does not have to hire special consultants for this purpose. Also, WSDOT staff will be able to recommend "green" building components during project scoping, making the process more effective and efficient.

¹ U.S. Green Building Council website, www.usgbc.org

Asset Management: Capital Facilities Annual Update

Facility Conditions

Facility Condition Assessment and Deficiencies Backlog

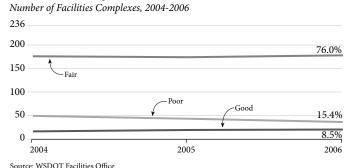
WSDOT's 930 buildings and facility structures are grouped into 236 complexes. The condition of these complexes is assessed at least once every two years by Region Facility Managers and their staff. In 2006, 85% of the total number of facilities were in fair or better condition: 20 facilities complexes were in good condition, and 178 were in fair condition.

WSDOT's Facilities Deficiency Backlog

The results of these assessments are used to summarize and report the condition of WSDOT-owned facilities to the Office of Financial Management as mandated by RCW 43.82.150. The Region Facility Managers identify deficiencies in the building and site systems (such as roofs, air handling equipment, pavement, and plumbing) and estimate the cost to correct them and to identify a backlog of needs. To address the backlog, deficiencies are reviewed and packaged into projects. The most critical projects are prioritized within the available funding for delivery.

In 2002, the backlog was valued at \$101.1 million; in 2004, the backlog was valued at \$134.3 million; in 2006, the backlog is valued at \$135.8 million. Approximately 17% of all WSDOTowned buildings are major facilities greater than 50 years old. This backlog is expected to grow as site and building systems continue to age.

WSDOT Facility Condition Trend



97% of Preventive Maintenance Activities Completed as Scheduled

Preventive maintenance is a schedule of planned maintenance actions aimed at the prevention of breakdowns and system failures. The primary goal of preventive maintenance is to replace and service worn components before they actually fail, thereby preventing equipment and other system failures. System failures are very costly, and can be an unexpected strain on funding. They also result in production loss because of system downtime.

A new computer preventative maintenance system installed in the 2003-05 biennium allowed WSDOT to identify and define the required maintenance schedules for critical equipment. For the first fiscal year of the 2005-07 biennium, 7,228 preventive maintenance tasks were scheduled, and 7,035 (97%) have been completed. It is anticipated that this computer system will prevent maintenance system failures, reducing emergent needs in the future.



The new Pomeroy Maintenance Facility (replaced in 2005) is one of 130 WSDOT maintenance facilities across the state.

Asset Management: Capital Facilities Annual Update

Capital Facilities Construction Projects

Capital Facilities Construction Projects 2005-07

Spokane Street Section Maintenance Facility

A new facility will be constructed in Seattle, adjacent to WSDOT's existing Corson Avenue site, to accommodate the urban Seattle maintenance crews and equipment. These crews maintain SR 509 and SR 599, and parts of I-5, I-90, SR 99 and SR 520. The crews are currently housed in small, inefficient facilities from the 1930s at Spokane Street. Those facilities are also on ground contaminated with gasoline and diesel, which will be cleaned up by WSDOT to meet environmental standards. The old site will continue to be used as a base of operations for materials testing staff, staging materials, and equipment. The new building is expected to be completed in Spring 2009.



WSDOT's Spokane Street Maintenance Facility in Seattle.

Thurston County Light Industrial

The new Olympic Region Complex will consolidate region resources and work groups in a single location. Along with staff assigned to the current Olympic Region Headquarters site in Tumwater, six satellite offices in Thurston County will be incorporated into the new regional complex. By combining and sharing resources, the new office complex will: improve communication; maximize the use of shared meeting rooms, vehicles, and common areas; and relieve the burdensome and costly building maintenance work needed to sustain operations at the existing 1930s Tumwater complex. The contract to design and build this project was advertised on April 5, 2006.



The current Olympic Region Complex in Tumwater

Ephrata Area Maintenance Facility

A rebuild of the old 1950s Ephrata facility on the existing site will accomplish needed improvements to work space. The Ephrata facility supports maintenance for parts of I-90 and several state routes in the Moses Lake, George, and Othello vicinities. The project is currently in pre-design and construction stages and is scheduled for completion in 2009.

Wenatchee Administrative Building Equivalent Value Exchange

As the final phase of the North Central Region Complex relocation, WSDOT proposes to exchange the North Wenatchee Avenue property and two other Wenatchee vicinity properties for construction of a new administrative building and improvements to the WSDOT-owned Euclid Avenue Facility. Administrative and project engineering functions will occupy the new facilities. Design will begin in Summer 2007.

Capital Facilities Construction Projects 2007-09

Vancouver Light Industrial

As the final phase of the relocation of the 1930s vintage Vancouver Regional Office Complex, this project will move the remaining functions from the Main Street facility to a location that is central to the areas of operations and zoned for light industrial activities. A site for the new facility will be acquired in 2007-09. The facility construction to house the region-wide and area maintenance crews and their equipment will be programmed in future biennia. The area maintenance functions are responsible for highway maintenance activities on sections of I-5, I-205, SR 14 and SR 500 through SR 503.

Tri-Cities Area Maintenance Facility

A site for the new facility will be acquired at a location central to the area of operations and zoned for light industrial functions. Future construction of this facility will replace the existing antiquated and undersized Pasco Area Maintenance Facility that supports the highway maintenance activities on sections of I-82, I-182, SR 395, SR 12, SR 124, SR 240, and SR 397.

Traffic Fatalities in Washington State

This highway safety report complements the report published in the December 2005 *Gray Notebook*. The following pages provide the 2005 Washington State fatal and disabling traffic accident rates, describe two of WSDOT's highway safety improvement efforts, rumble strips and roundabouts, and present the 2005 seatbelt use statistics.

2005 Data Shows an Increase in Traffic Fatalities

Over the past decade, there has been a general downward trend in traffic fatalities on Washington State's highways, city streets, county roads, and other public roadways. Washington experienced a low point in fatalities in 2003 and 2004, with 600 and 567 deaths, respectively.

However, preliminary 2005 data shows an increase following these two low years. In 2005, total fatalities on Washington's public roads increased 14%, from 567 in 2004 to 649 in 2005. Of the 82 additional fatalities, county roads accounted for 32 (39%), state highways accounted for 30 (37%), city streets accounted for 23 (28%); other roadways experienced a decrease of 3 (-4%). There was also an increase nationally. Preliminary data suggests that Washington State's increase in highway fatalities in 2005 contributed to 15% of the increase in highway fatalities at the national level.

WSDOT takes this increase in highway fatalities very seriously, and is examining ways to keep the fatality trend continuing downward (see page XX). Below is an analysis of the 2005 fatal and disabling accident data.

Washington State Traffic Fatalities, 2000-05

| 2000 | 2001 | 2002 | 2003 | 2004 | 2005 |
|------|------|------|------|------|---------------|
| 631 | 649 | 659 | 600 | 567 | 649 (Prelimi- |
| | | | | | nary data)1 |

Source: Fatal Accident Reporting System (FARS) WSDOT counts an additional 6 deaths for 2005. See gray box to the right.

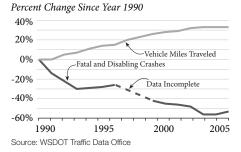
Comparing Fatal and Disabling Injury Collisions and Vehicle Miles Traveled

Traffic fatality rates are commonly expressed as deaths per 100 million vehicle miles traveled (VMT). The 2005 increase in fatal and disabling crashes increased the fatality rate 13.5%, from 1.02 per 100 million VMT in 2004 to 1.18 per 100 million VMT in 2005.

Despite this increase, the fatality rate on Washington's public roads has decreased 36% over the past 15 years, from 1.85 in 1990 to 1.18 in 2005. In this time, fatal and disabling injury collisions on Washington's highways declined 53%, from

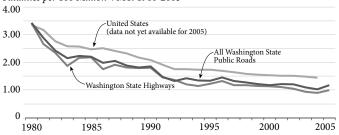
Fatal and Disabling Crashes and Vehicle Miles Traveled (VMT)

Washington State Highways (State Routes and Interstates)



Traffic Fatality Rates in Washington Compared to the National Average

Fatalities per 100 Million VMT: 1980-2005



Provided by: WSDOT-TDO

Sources: Ú.S. Fatalities/VMT: NHTSA Traffic Safety Facts; WA Fatalities: FARS; State Highway Fatalities: WSDOT-TDO; WA VMT: WSDOT-TDO

FARS Fatality Count and WSDOT Fatality Count

There are two key differences between the two systems used to track data. First, to qualify as a FARS case there must be a motorized vehicle involved in the crash, per the nationally recognized definition. WSDOT, following the direction given by the Blue Ribbon Commission on Transportation, includes non-auto-related fatalities on the highways. In addition, FARS does not count traffic fatalities due to natural catastrophic events, whereas WSDOT does count those fatalities. A more complete description of these differences is available in the Transportation Benchmarks Safety Goal article on page XX.

2,491 collisions in 1990 to 1,163 in 2005; meanwhile, the VMT increased 33%. Essentially, people are driving more miles, yet having fewer fatal accidents.

This decline parallels a similar national trend. In 2004, the national fatality rate was 1.44 per 100 million VMT, compared to Washington's rate of 1.02 per 100 million VMT. (The national

fatality rate for 2005 is unavailable at this time, therefore no comparison for 2005 is available; with the increase to 1.18, Washington's standing will not be as favorable, although will still likely be below the national average).

Fatality Rates per Capita

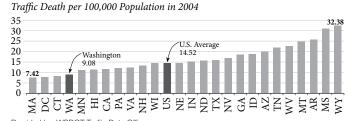
Washington's average fatality rate per capita is about nine traffic fatalities out of every 100,000 people. Despite the increase in fatalities in 2005, Washington is still well below the national average in rate of fatalities per capita. In 2005, Washington ranked seventh in the nation for fewest traffic fatalities in relation to population (based on projected data). The national average is about 15 traffic fatalities out of 100,000 people.

Fatal and Disabling Accident Rates by County

Safety is a major issue for highway system users in both urban and rural areas. In reviewing the fatal and disabling data by county, rates for several counties decreased while others increased (see the maps below and to the right). Analysis of the data at the county level can provide helpful insights into accident trends and types; safety analysts and engineers use this to determine where to recommend strategic safety improvements. Currently, 50% of highway safety improvement funds go to rural counties and 50% goes to urban counties.

Rate of Fatalities Per Capita in the U.S. Sampling of States

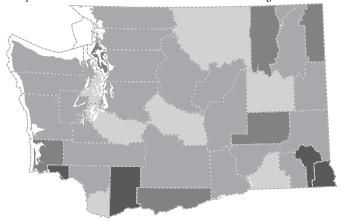
(Public Roads: Highways, City and County Roads)



Provided by: WSDOT Traffic Data Office Source: National Highway Traffic Safety Administration (*Traffic Safety Facts 2004 Book*)

Previous Combined Fatal and Disabling Accident Rate on State Highways by County*

Rate per 100 Million Vehicle Miles Traveled 2001 to 2003 Average Rate



Current Combined Fatal and Disabling Accident Rate on State Highways by County*

Rate per 100 Million Vehicle Miles Traveled - 2004-05 Average Rate Total Number of Accidents Shown in Parenthesis*



* Note: Combined, Rural, and Urban Rates do not include Interstate.

Federal Law Title 23 U.S. Code Section 409 prohibits the discovery or admission into evidence of this data in Federal or State Court proceedings or consideration in any action for damages.



Factors Contributing to the 2005 Highway Fatality Increase

The increase in deaths on public roadways in 2005 is troubling. An initial analysis by WSDOT indicates impaired driving (alcohol and drug influence), speeding, and failure to wear seatbelts continue to be major contributing factors to highway fatalities. In an examination of 2,429 fatal highway collisions from 2000-04, 1,880 (77%) were attributable to at least one of these three major factors. Frequently, more than one of these factors were involved in serious injury and fatal collisions (see graph to the bottom of the page). In 1,106 (46%) of these highway deaths, two or more of these factors were involved; 390 deaths, or 16%, involved all three of these factors.

The Short-Term Goal: Efforts to Immediately Reduce Fatalities on State Highways

Washington saw a 14% increase in fatal and disabling crash rates during the past year after several years of decline; slightly more than one third of that increase occurred on state highways.

Based on analysis of the county-by-county data, recommendations for reducing the fatality rate focus on making improvements through a series of approaches: first, by targeting known locations with recurring accidents; second, by improving short sections of corridors (one to three miles) with accident rates above current highway standards; and third, by making low cost safety improvements (like rumble strips or

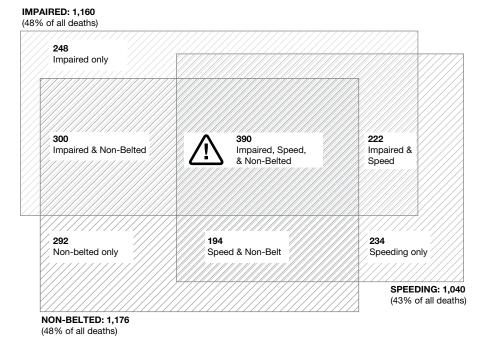
guardrail upgrades) on routes where there are a large number of accidents throughout the corridor on routes which are not concentrated in a particular spot or short segment. By using this three-prong approach, WSDOT intends to take action against the factors within its control to help reduce fatal and disabling accident rates.

The core of WSDOT's strategy is efficient investments in safety improvements. Around the state, multiple low-cost highway improvements are saving lives almost as soon as they are installed, including centerline rumble strips (p. XX), cable median barriers (December 2005 *Gray Notebook*, p. 52, and gray box on page XX), guard rails, and improved lighting and pavement markings. The cost for these highway improvements ranges from \$40,000-\$200,000. Roundabouts (p. XX) are a midrange highway safety investment; they save lives by allowing traffic to proceed slowly through an intersection, eliminating the opportunity for high-impact collisions. A roundabout costs between \$1 to \$5 million to design and install.

WSDOT is also pursuing more costly improvements on high accidents corridors (HACs) and high accident locations (HALs), such as widening roadways or adding new lanes. These highway projects require the approval of the Legislature and cost \$1 million to \$1.5 million per lane mile; therefore, they are not as cheap or as easy to implement as low cost improvements or roundabouts, and can take several years to completely achieve. For more information on HACs and HALs, see the December 2005 *Gray Notebook*, p. 48.

WSDOT analyzed 2,429 deaths of motor vehicle occupants from 2000 to 2004. WSDOT found 1,880 (77%) involved impairment (alcohol or drugs), speed, or non seat belt use.

| Fatal Accident Causes | Number of Deaths |
|---|------------------|
| Impairment only | 248 |
| Non-Belted only | 292 |
| Speeding only | 234 |
| Impairment and Non-Belted | 300 |
| Impairment and Speeding | 222 |
| Non-Belted and Speeding | 194 |
| Impairment, Speeding, and Non-Belted | 390 |
| Total Fatalities Involving Impairment, Speeding, or | 1,880 |



Non-Belted

The Long-Term Goal: Zero Fatalities by 2030

Many of the strategies described on the preceding pages are also part of a long-term objective known as Target Zero: a goal to eliminate fatal collisions on Washington state's public roadway system by the year 2030. Created by the Washington Traffic Safety Commission in the 2000 Highway Safety Strategic Plan, Target Zero incorporates four traditional highway safety components commonly referred to as the four "E"s: enforcement, engineering, education, and emergency services. While WSDOT supports education and emergency service activities, these are typically a function of other agencies, such as the Washington State Patrol and the Traffic Safety Commission. WSDOT takes a more active role in the Enforcement and Engineering components of the four "E"s.

Engineering

Highway safety improvements are WSDOT's primary "Target Zero" focus. As described previously, WSDOT is undertaking several different strategies to engineer safer highways. Focus areas for roadway improvements in the 2000 plan include a reduction in serious and fatal collisions associated with running off the road, crossing the median of divided highways, and running stop signs or red lights at intersections. In addition to the low-cost improvements and roundabouts described on page XX, activities in the plan include bridge rail and guard rail upgrades, installation or upgrading of traffic signal systems, installation of pedestrian-related improvements such as school advance warning signs, crosswalks, and islands, and upgrading standard roadway intersections to freeway style interchanges.

Enforcement

The Traffic Safety Commission, State Patrol, Department of Licensing, and Department of Health take the lead on Target Zero strategies that focus on traffic and driver behavioral issues. WSDOT works with these and other agencies on programs such as *Click It or Ticket*, safety corridor projects, and ticketing aggressive drivers.

In addition to these existing Washington State programs, WSDOT would encourage the examination of photo enforcement. Photo enforcement is based on automated cameras that detect vehicles which exceed the speed limit or run red lights at intersections by photographing the license plates of violat-

Target Zero: Traffic Deaths in Washington State

1980-2005 Actual, 2006-2030 Projected



Source: FARS
Provided by: Washington State Traffic Commission
Note: Preliminary Data for 2005

Washington Recognized for Saving Lives with Cable Barriers

USA Today highlighted Washington and several other states in a recent article on the accident-reducing properties of cable median barriers ("Lives saved as highways get cable," July 19th, 2006). Washington State is a leader in implementing cable barriers, with the goal to protect all medians less than 50 feet in width. The department is installing approximately 70 miles of new cable guardrail in eight counties and on nine separate highways across the state. Between 1999 and 2004, cable barrier successfully restrained about 95% of the errant vehicles without involving a second vehicle, whereas W-beam guardrail and concrete barrier successfully restrained about 70% of the errant vehicles without involving a second vehicle.

ing vehicles. Citations are mailed to the registered owner of the vehicle. They are typically classified and processed like parking tickets rather than as moving vehicle violations. WSDOT is working cooperatively with the Washington Traffic Safety Commission and the Washington State Patrol to pursue policy and potential legislation that involve traffic safety cameras for photo enforcement.

The Highway Safety Strategic Plan isavailable at www.wsdot. wa.gov/planning/HighwaySafetyPlan.htm

Roundabouts

WSDOT and a number of Washington State communities have been building roundabouts since 1997. Approximately 94 roundabouts are on the public roadway system in Washington, with 14 on the state highway system. Roundabouts cost between \$1 and \$5 million to design and build, making them more expensive than low-cost efforts such as rumble strips, but much less expensive than major highway safety projects such as road widening.

Roundabouts are often touted as one of the safest intersection control devices, so their use on the public roadway system is replacing the traditional American approach of stop signs and traffic signals. National studies from the Insurance Institute for Highway Safety show that fatality crashes at an intersection drop 90% after the installation of a roundabout, and injury collisions drop by approximately 76%.

Roundabouts: Before and After Safety Study

To measure roundabout performance in Washington, WSDOT performed a before and after safety study of nine roundabouts located at intersections on the state highway system. The study analyzed urban and rural roundabouts as well as single-lane and multi-lane roundabouts. In all of the locations, collision data was collected for the three years prior to installation of a roundabout. Once roundabouts were open to traffic, collision data was collected in the same locations. The table to the right shows a comparison of the number of fatal and disabling injury collisions and evident injury¹ collisions before and after installation of roundabouts.

Based on the analysis of the nine WSDOT roundabouts, fatal and disabling injuries dropped 80%. In fact there were no fatality collisions in the intersections after installation of the roundabouts. Evident injuries dropped an average of 73% at the nine locations. The results show that roundabouts improve safety. While this data is raw numbers, analysis of rates by month show similar results. Many of the roundabout intersections in the study also have shown reduced average wait times for drivers at the intersection.

Total Collisions in WSDOT Study of Nine Roundabouts by Type of Collision

Before and After Installation of Roundabouts

| Type of collision | Collisions Before Installation | Collisions After Instal- lation | Percent Change |
|-----------------------------|--------------------------------------|---------------------------------------|-------------------|
| Fatal and disabling | 5 | 12 | -80% |
| Evident injury ¹ | 15 | 4 | -73% |

Source: WSDOT Traffic Office

¹An evident injury is an injury that is verifiable by the police officer when arriving at the crash location and interviewing occupants of the vehicles (i.e. Lacerations, broken bones, and incapacitation)

²This was a disabling collision. There were no fatality collisions in any of

the nine intersections after installation of the roundabouts.

European and Australian traffic engineers who have shared information with American traffic engineers have cautioned that the "learning curve" for motorists can cause increases in very minor crashes at multi-lane roundabouts during the "educating motorist" years, usually a period of one to two years. Nevertheless, long-term data supports the installation of

Future *Gray Notebook* Highway Safety reports will include more extensive safety analysis on roundabouts as more roundabout intersections are built on the state highway system.

roundabouts to increase safety and efficiency in intersections.



Roundabout at the intersection of SR 903 and Bullfrog Road near Cle Elum, Washington.

Seatbelt Use in 2005

More Washington Motorists Buckle Up

Not wearing a seatbelt is one of the three key factors driving fatality rates in Washington State (see p. XX for more about common factors in fatality accidents). The use of seatbelts increases the chance of surviving a collision by up to 70%. Seatbelt use in Washington increased by 1%, from 94.2% in 2004 to 95.2% in 2005. Washington ranked second in the United States, lagging behind Hawaii by 0.1%. Nationwide, Washington was among nine states and U.S. territories which achieved seatbelt use rates of 90% or higher. The others included Hawaii, Nevada, Arizona, Oregon, Michigan, California, Puerto Rico, and Maryland. See the top right table for a comparison of seatbelt use in the top six states.

Of the 50 states and Puerto Rico, 22 have primary enforcement laws: motorists can be stopped solely for not wearing seatbelts. The national average seatbelt use among states with enforcement laws was 85%, with the average among non-primary enforcement states being 75%, a 10% decrease.

Seatbelt Usage Highest in SUVs and Passenger Cars According to a statewide observation study by the WTSC, seatbelt use in Washington State was highest for SUVs (96%) and for passenger cars (95.6%). The lowest use rate was in pickup trucks (93.4%).

More Motorists Buckle Up on Interstate Highways

The Washington Traffic Safety Commission (WTSC) survey also showed that 96.9% of motorists buckled up on interstate highways. The use rate was lowest (90.5%) on county roads. The bottom right table shows a comparison on seatbelt usage for various roadway types in Washington State.

Percent of Seatbelt Usage

Top Six Ranking States for 2004 and 2005

| Rank | State | 2005 | 2004¹ |
|------|------------|-------|-------|
| 1 | Hawaii | 95.3% | 95.1% |
| 2 | Washington | 95.2% | 94.2% |
| 3 | Nevada | 94.8% | 86.6% |
| 4 | Arizona | 94.2% | 95.3% |
| 5 | Oregon | 93.3% | 92.6% |
| 6 | Michigan | 92.9% | 90.5% |

Source: Traffic Safety Facts: Research Note, DOT-HS 809 907 and DOT-HS 809 932 (USDOT NHTSA)

WTSC Seatbelt Use Rates in Washington

By Roadway Type- 2005

| Rank | Road Type | 2005 |
|------|-------------------------|-------|
| 1 | Interstate Highways | 96.9% |
| 2 | US Routes | 93.9% |
| 3 | State Routes | 93% |
| 4 | City Streets | 92.5% |
| 5 | County Roads | 91% |
| | Total Statewide Average | 95.2% |

Source: Seatbelt Usage Rates in Washington State, 2005 (Washington Traffic Safety Commission, 2005)

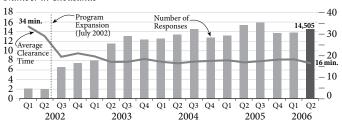
¹Not in ranking order, for comparison purposes only.

Incident Response: Quarterly Update

In the second quarter of 2006, WSDOT Incident Response (IR) teams responded to 14,505 incidents. This was an increase of 689 (5%) responses from the first quarter (13,816). Second quarter data historically follows a seasonal pattern that begins in the summer, when the number of incidents tends to increase. Overall, the increase to responses this quarter was due to noncollision responses. Responses to collisions decreased by 81 from the first quarter of 2006 (1,688 responses in January-March and 1,607 responses in April-June).

Number of Responses and Overall Average Clearance Time

January 2002 - June 2006 Number in Thousands



Source: WSDOT Incident Response Tracking System

Note: Program-wide data is available since January 2002. Prior to Quarter 3 of 2003, the number of responses by IRT are shown. Beginning Quarter 3 of 2003, responses by Registered Tow Truck Operators and WSP Cadets have been reported in the total.

Decrease in Clearance Time this Quarter: 90 Minutes and Longer

The trend in the number of incidents lasting 90 minutes or more normally follows seasonal ups and downs (see chart on the right); that is, an increase in the late summer through winter, followed by a decrease in the spring. In the second quarter, the total number of incidents lasting 90 or more minutes was 204. This is a 16% decrease from 243 responses in the previous quarter.

Incident Response Types

April 2006 - June 2006

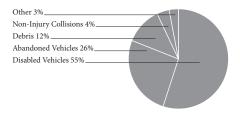
| 1 | | | |
|----------------------------------|-------|-------|-------|
| Primary Reason | April | May | June |
| Fatality Collisions | 8 | 10 | 9 |
| Injury Collisions | 124 | 118 | 117 |
| Non-injury Collisions | 422 | 403 | 396 |
| Disabled Vehicles | 2,289 | 2,736 | 2,735 |
| Abandoned Vehicles | 728 | 923 | 890 |
| Debris | 362 | 512 | 522 |
| Other | 120 | 163 | 180 |
| Supplemental Reason ¹ | April | May | June |
| Fire | 18 | 27 | 26 |
| Hazardous Materials | 9 | 9 | 6 |
| Other Contacts | 134 | 183 | 206 |
| | | | |

Supplemental Reasons are in addition to or as a result of Primary Incident Types.

Source: WSDOT Incident Response Tracking System

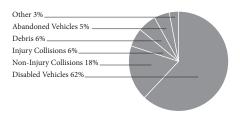
Incidents Lasting Less Than 15 Minutes (8,830)

Injury Collisions were less than 1% (not shown). There were 16 Fires and 2 Hazardous Materials involved incidents in addition to or as a result of above incidents.



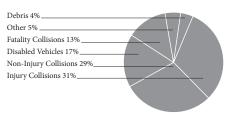
Incidents Lasting 15 to 90 Minutes (4.733)

There were 34 Fires and 6 Hazardous Materials involved incidents in addition to or as a result of above incidents.



Incidents Lasting 90 Minutes and Longer (204)

There were 7 Fires and 12 Hazardous Materials involved incidents in addition to or as a result of above incidents.

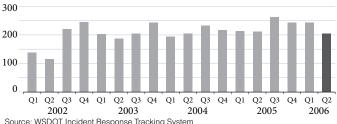


Source: WSDOT Incident Response Tracking System

Note: There were 738 incidents that the IR teams were unable to locate.

Responses to Incidents Lasting 90 Minutes or Longer

January 2002 - June 2006



Service Actions Taken for Non-Collision¹

| | April | May | June |
|-------------------|-------|-------|-------|
| Traffic Control | 493 | 584 | 601 |
| Provided Fuel | 361 | 444 | 383 |
| Changed Flat Tire | 260 | 300 | 347 |
| Minor Repair | 217 | 258 | 244 |
| Pushed Vehicle | 168 | 228 | 212 |
| Towed Vehicle | 62 | 97 | 73 |
| Cleared Debris | 341 | 484 | 498 |
| Other Actions | 1,307 | 1,530 | 1,534 |

¹Most common service actions only - excludes various miscellaneous actions taken. Multiple actions may be taken for each response.

Source: WSDOT Incident Response Tracking System

Incident Response: Quarterly Update

Response Increases to Fatality Collisions: Summer of 2005

Analysis of Temporary Increase

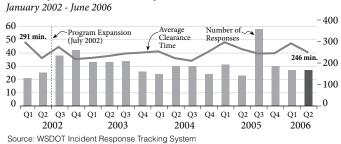
On average, 49% of all fatality collisions on State Routes are responded to by the Incident Response program statewide. In the third quarter of 2005, there was a 15% increase in fatality responses. The total number of responses to fatality collisions by the Incident Response (IR) program increased to 58. Despite this increase, clearance time remained relatively steady. In the last three years, the average number of responses was 30 per quarter. The total responses have returned to normal levels over the past three quarters. This report focuses on the fatality collisions responded to by the IR program for the third quarter of 2005; however, it does not address the annual fatality rates (see p. X of the Highway Safety Annual Report for more information on annual fatality rates).

The Incident Response program responds in two ways: roving response and call-out response. For major incidents, such as fatality collisions, call-outs occur 24/7 statewide. The program's main responsibilities are to provide traffic control and to help remove debris or disabled vehicles to limit congestion.

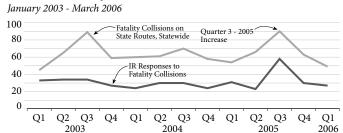
Possible Incident Response External Factors

Compared to the trend for county roads and city streets, there was a large increase of 26 fatality collisions on State Highways in the third quarter of 2005. Generally, when a fatality occurs, emergency responders request assistance by IR teams to manage congestion and to assist with clearing the scene. In the third quarter of 2005, the "dead-at-scene" fatality collision responses by the IR program spiked to 61. Twenty-four people died at the hospital and five died on arrival to the emergency

IR Responses to Fatality Collisions



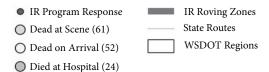
Fatality Collisions on State Routes and WSDOT IR Responses



room. See the map on the previous page for a distribution of these fatalities responded to by the incident response program. Fatality collisions increased in all regions proportionately. However, in the third quarter, the Worth West Region made 26 responses to fatality collisions, higher than the region's 12 response quarterly average.

Fatality Collisions on State Routes and Incident Program Responses

July - September 2005

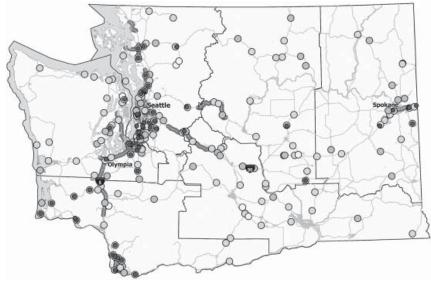


Number of IR Responses by Type

WSDOT Traffic Data Office

| Third Quarter of 2005 | |
|--------------------------|--------------------|
| | Number of Fatality |
| Response Type | Collisions |
| Dead at Scene | 61 |
| Dead on Arrival to ER | 5 |
| Died at Hospital | 24 |

Source: WSDOT Incident Response Tracking System &



Incident Response: Quarterly Update

Alcohol and speeding tend to result in more serious collisions. In the third quarter of 2005, there was a 67% increase in fatality collisions that involved alcohol and an increase from 12 to 19 fatality collisions that involved speeding. Also, the IR field crew felt that awareness of the program within the Washington State Patrol contributed to the increase in the number of call-out requests in the third quarter of 2005.

Summary of Analysis

The temporary increase in the responses to fatality collisions in the third quarter of 2005 may be due to multiple factors. The major contributor appears to be the above normal increases in the number of fatality collisions on State Highways, a 36% increase from the second quarter of 2005 (from 66 to 90 fatality collisions). There were more "dead-at-scene" collisions (a 69% increase from previous quarter), possibly due to increased alcohol and speed factors involved. Generally, when a fatality occurs, emergency responders request assistance by IR teams to manage congestion and to assist with clearing the scene. The IR Field Crew felt that WSP requested IR presence more often due to increased awareness of the program, even in non-fatality collisions.

Limitation of Data Comparison between WSDOT Collision Data Systems and IR Program Data Systems

The two data systems collect information for different purposes. Therefore, the use of the two systems for comparison of fatality collisions should be limited to overall trend monitoring and not looked at on a case-by-case level.

Fatality Collisions on State Routes By Type of Fatal Collision

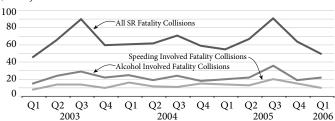
January 2003 - March 2006



Source: WSDOT Incident Response Tracking System & Traffic Data Office

Fatality Collisions on State Routes

January 2003 - March 2006



Source: WSDOT Incident Response Tracking System & Traffic Data Office

Intelligent Transportation Systems Operations: First Annual Update

Running parallel to virtually the entire state highway network is a less visible, but very important, technology infrastructure. This technology infrastructure is typically referred to as Intelligent Transportation Systems, or ITS. ITS includes ramp meters, variable message signs, radio advisories, and several other systems. ITS helps communicate traffic and weather conditions to the public, manage traffic flow, and collect traffic data, among many other valuable functions.

Quantifying the impact that ITS has on traffic congestion can be difficult. Many factors can lead to congestion: the number of cars exceeding road capacity, constraining roadway geometrics, accidents, slow vehicles, erratic drivers, and bad weather. Because of this, it can be difficult and expensive to extract quantifiable performance measures specific to each of the elements of ITS. Where possible in this article, WSDOT tries to provide data on similar systems in other states.

ITS Communications

WSDOT operates a communication system composed of radio, microwave, and fiber optic elements that touch all sections of the road network. This provides radio communications for those maintaining the roads, and condition data for those managing the roads. Data transmitted over the system comes from many ITS elements that are part of WSDOT's overall traffic management efforts. Some of the key ITS elements include:

Closed-Circuit Television Traffic Cameras (CCTV)

WSDOT operates an extensive network of closed-circuit televisions across the state to help detect congestion and accidents, to provide real-time traffic and road condition awareness. The closed-circuit camera sends images to WSDOT's traffic management centers, the WSDOT web site for travelers to see, and to the media. This feature is available at www.wsdot. wa.gov/traffic/.



A Closed-Circuit Traffic Camera provides real-time information to the public on WSDOT's web site.

WSDOT Intelligent Transportation Systems Elements

As of June 30, 2006

| Device Type | Number of Devices or Sites | Approximate Cost per Device or Site |
|--|----------------------------------|---|
| 71 | | |
| Closed Circuit Television Cameras (CCTVs) | 478 | \$15,000-30,000 |
| Variable Message Signs (VMSs) | 172 | \$100,000 |
| Highway Advisory Radios (HARs) | 44 | \$50,000 |
| Road/Weather Information Systems (RWIS) | 79 | \$25,000- \$50,000 |
| Ramp Meters | 117 | \$10,000 - \$100,000 |
| Traffic Data Collectors | 5,000 (Approx.) | \$1,000-\$10,000 |
| Traffic Management Centers (TMCs) | 8 ¹ | N/A |
| ¹ This includes one winter operations site in the Snoqualmie Pass | | |

Source: WSDOT Traffic Operations Office

Variable Message Signs (VMS)

A variable message sign is an electronic traffic sign used on roadways to provide motorists with important information on traffic congestion, incidents, roadwork zones, travel times, special events, or speed limits. VMSs may also recommend alternative routes, limit travel speed, warn of the duration and location of a problem, or simply provide alerts or warnings.

A recent survey of drivers in Wisconsin found that approximately 68% of respondents reported adjusting their travel routes based on the travel time or traffic information provided by the VMS. About 18% of respondents adjusted their travel routes more than five times per month using this information.¹



A variable message sign displays travel time information.

'From: Ran, Bin et al., Evaluation of Variable Message Signs in Wisconsin: Driver Survey, University of Wisconsin at Madison, May 2002. www.dot.wisconsin.gov/library/research/docs/finalreports/45-17variablemessagesigns.pdf

Intelligent Transportation Systems Operations: Annual Update

Highway Advisory Radios (HAR)

Low-power AM radio stations installed along the roadway provide highway advisories and general information regarding traffic and travel. The presence of a HAR transmitter is marked by a "Tune to 1610 AM" roadway sign (see picture below). The 1610 frequency is one of several used by HAR radios. A survey of drivers during the Salt Lake City Olympics found that 76% of those who reported seeing HAR signs on the roadway found the information provided by the HAR to be helpful.²

Road/Weather Information Systems (RWIS)

A typical Road/Weather Information System station uses instruments and equipment installed along the roadway to measure air and road surface temperature, barometric pressure, humidity, wind speed and direction, precipitation, visibility and road surface condition (dry, wet, freezing). This information is used to inform highway maintenance strategies and provide information to drivers.

In a recent survey, WSDOT road maintenance crews ranked RWIS pavement conditions data as the most useful ITS technology deployed, followed by camera images and radar data on the Internet. Additionally, 94% of responding motorists said web-based road weather information made travelers better prepared for their trips. Over half of the respondents (56%) agreed the information helped them avoid travel delays.³



A Highway Advisory Road Sign

Cell Phone and GPS Traffic Detection Systems

Any vehicle on the road can act as a "data probe," relaying travel time, speed, and delay information to data detection devices. When a substantial number of vehicles work as probes, they become a low-cost data collection system covering large geographic areas without the need to install costly roadway monitoring equipment. WSDOT is exploring "data probes" to broaden traffic data collection to better manage the system. Considerable effort is underway to test and develop these systems nationally. Most efforts fall into one of two methods: cell phone and GPS tracking.

Cell Phone Tracking

By tracking the movement of cell phones, it is possible to determine the speed of the cell phone - and the car it is in. By restricting the analysis to phones located on roadways, cell phone tracking provides a means to measure vehicle speeds.

Global Positioning Satellite Tracking

Global Positioning Satellite (GPS) in-car transponder devices can report highly accurate location, heading, and speed information. When combined with electronic map information, GPS devices provide an excellent vehicle location system. Storage and analysis of the GPS location data allows for accurate roadway performance measurement.⁶

WSDOT's Approach

WSDOT is not currently involved in any projects that involve cell phone tracking but may look at this technology in the future. The agency is investigating using tags on commercial vehicles to provide accurate travel times for large trucks, and evaluating GPS tracking of some of the WSDOT maintenance fleet to see what kind of information can be provided. Neither of these methods provide information about traffic volume, only speed and travel times. If probe vehicles are the primary source of performance information, supplemental data collection will be needed for highway use performance measures.

From: Glazer, et al., Intelligent Transportation Systems at the 2002 Salt Lake City Winter Olympic Games: Event Study Traffic Management and Traveler Information, Prepared by Iteris, Inc. for the Utah DOT and USDOT FHWA, EDL No. 13850. Washington DC: April 2003. www. itsdocs.fhwa.dot.gov/JPODOCS/REPTS_TE//13850.html

³From: Evaluation of Rural ITS Information Systems Along U.S. 395, Spokane, Washington, Prepared by Batelle Memorial Institute; Meyer, Mohaddes Associates, Inc. for the USDOT, EDL No. 13955. Washington DC: January 2004. www.itsdocs.fhwa.dot.gov//JPODOCS/REPTS_TE//13955.html

⁴Adapted from: Traffic Congestion and Reliability: Trends and Advanced Strategies for Congestion Mitigation, Prepared by Cambridge Systematics, Inc. for the USDOT FHWA. Washington DC: September 2005. http://ops.fhwa.dot.gov/congestion_report/congestion_report_05.pdf

Intelligent Transportation Systems Operations: Annual Update

ITS Field Devices

Ramp Meters

Ramp meters are traffic signals on freeway on-ramps which alternate between red and green to control the flow of vehicles entering the freeway mainline. Metering rates are automatically adjusted by the system based on prevailing freeway traffic conditions. A 1999 study of ramp metering found these systems decrease total system travel time by 6-16% and increase average mainline speeds by 13-26%.⁵



A ramp meter controls the flow of traffic onto the highway.,increasing average speeds on the road.

Traffic Data Collectors

Traffic data collectors are one of the key set of tools used to track what is happening on the roadways. The most common detector WSDOT uses is the induction loop, a simple low-voltage wire coil buried in the roadway that sends an electrical pulse when a vehicle passes over it (See picture below). Other, less common detectors use infrared, radar, sound, or video imaging to detect vehicles. This data is sent from the roadside to WSDOT traffic management centers to monitor operations, and provide traffic conditions to the web and the WSDOT 511 traffic information hotline.

The data collector information directly supports the WSDOT web site to keep travelers informed of real-time traffic conditions and estimated travel times. See www.wsdot.wa.gov/traffic/seattle/traveltimes/ for WSDOT's travel times page.



An induction loop embedded in the highway collects traffic data and sends it to a traffic management center.

Traffic Management Centers (TMC)

WSDOT operates seven regional Traffic Management Centers. They are the nerve centers for WSDOT's operations activities, gathering real-time information 24 hours a day, seven days a week from many sources including the ITS network, the Washington State Patrol, road crews, WSDOT's incident response teams, and media traffic reporters. WSDOT uses this information to coordinate responses to clear accidents, deal with other problems that occur, and notify the public and the media.

WSDOT's seven Traffic Management Centers are located in Shoreline, Tacoma, Bellingham, Vancouver, Yakima, Spokane, and Wenatchee. Each varies in capabilities and is sized to meet regional needs. The centers in Tacoma, Vancouver, and Yakima are co-located with other operating agencies. WSDOT also has a winter operations center on Snoqualmie Pass.

A study in the Seattle area found that the morning peak period total system delay along a north end corridor was reduced by 1.5% by the operations of the TMC. In addition, the TMC reduced travel time variation by 2.5%, making travel more reliable for drivers.⁶



Inside a WSDOT Traffic Management Center

Using Traffic Data

In addition, to allow the TMCs to monitor and react to traffic problems and to inform drivers of those problems, data from the traffic data collection network is also used to provide a historical and comprehensive record of the state's highway network performance. This provides WSDOT with a better picture of some of the causes of traffic congestion and identifes possible solutions to these specific problems. More information on this topic is available in the annual *Gray Notebook* Congestion and Driver delay Report, last published in the September 2005 edition (p. 57).

⁵From: Hourdakis, J & Machalopoulos, P. (2002). Evaluation of ramp meter control effectiveness in two twin cities freeways. *Transportation Research Record*, 1811, 21-29.

⁶From: Wunderlich, et al., *ITS Impacts Assessment for Seattle MMDI Evaluation: Modeling Methodology and Results*, Prepared by Mitretek Systems for the USDOT FHWA, EDL No. 11323. Washington DC: September 1999. ntl.bts.gov/lib/9000/9700/9756/8qj01.pdf

Travel Information: Quarterly Update



Three Year Anniversary

The 5-1-1 call system offers an easy means to obtain real-time traffic information over the phone. The 5-1-1 system started in July 2003 as a way to enhance travel information throughout the state. The system now offers callers a multitude of options, including roadway conditions, traffic incidents, and weather, as well as information on ferry travel, transit, railway, and airlines. The 5-1-1 phone system was initially operated by voice activation. Touch-tone was added in November 2004. In May of 2006, the 5-1-1 system received over three million calls. Since its inception, the 5-1-1 system has received 3,050,398 calls, its highest monthly total was 421,600 in January of 2006.

The number of calls to 5-1-1 continues to increase. The calls from other WSDOT Travel Information lines (1-800-695-ROAD & 1-206-DOT-HIWY) were forwarded to the 5-1-1 system in January of 2005. In December 2005, the 5-1-1 system was enhanced to double its call capacity from 48 to 96 incoming lines. In February 2006, capacity was again doubled to 192

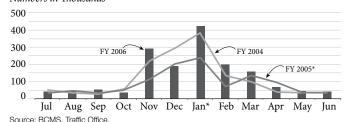
The peaks and valleys shown in the graph to the right illustrate caller usage patterns. The largest peaks tend to be in the winter months when mountain pass conditions rapidly change.

Call Volumes Decrease 20% Since Last Quarter

In the second quarter of 2006, call volumes decreased 20% from the previous quarter. This is a 9% decrease from the same quarter last year. April received the highest call volume (68,660) for this quarter.

Total Calls to Travel Information¹

(5-1-1, 1-800-695-ROAD, and 206-DOT-HWY) Three-Year Trend: FiscalYear 2004-06 Numbers in Thousands



Starting January 2005, 1-800-ROAD and 206-DOT-HWY numbers connect directly to 5-1-1, and the call counts are reported in 5-1-1 call total

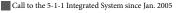
On the WEB: Quarterly Growth

In the second quarter of 2006, WSDOT's website averaged 3.3 million daily page views. This was 29% higher than the same quarter last year. This time last year the site averaged 2.5 million daily page views. This is the first time in the last four quarters that the site did not grow at least 40% over the previous quarter.

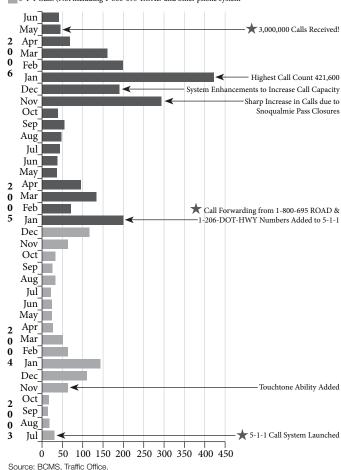
5-1-1 Milestones

3-year Milestones *

Numbers in Thousands



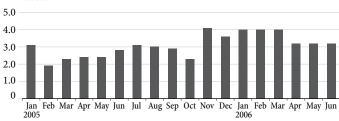




Source: BCMS, Traffic Office

Website Usage

Average Daily Page Views: January 2005 to June 2006 In Millions



Source: WSDOT Communication Office

Note: A page view is counted each time a visitor views a webpage on WSDOT's website. Each time a page is refreshed in a user's browser, a page view is recorded. Pages are comprised of numerous files. Every image in a page is a separate file. When visitors look at a page, they may see numerous images, graphics, pictures, etc., each generating multiple hits by a user. For example, a page with 10 pictures will generate 11 hits (10 pictures and one for the html file). This is the reason WSDOT tracks page views and not hits.

Environmental Program: Annual Update

Programmatic Permits: Improving Regulatory Efficiency

WSDOT continues to develop programmatic permits with resource agencies to help simplify and expedite the regulatory process. Programmatic permits provide regulatory coverage for routine activities that have minimal impacts, like some aspects of highway maintenance and preservation work.

The following table displays the types of programmatic permits that have been issued for WSDOT activities by resource agencies such as the Washington Department of Fish and Wildlife (WDFW) and the Department of Ecology (DOE). There are no new permits for 2005, but two are under development.

Activi-

Activi-

| Environmental | Programmatic | Parmits | 2004-2005 |
|---------------|---------------|---------|-----------|
| | riouranimanic | remma, | 2004-2003 |

| Permit Name | Activity Description | Permit Agency | Date Issued | Date Expires | ties Using Permit | ties Using Permit |
|---|--|------------------|------------------|-----------------|-------------------------|-------------------------|
| Overwater Structure Maintenance and Repair | Covers all bridge and ferry terminal maintenance and repair including washing, painting, and deck replacement | WDFW | 7/16/03 | 7/15/08 | 270 | 972 |
| Beaver Dam Removal Statewide GHPA ¹ | Allows the removal of beaver dams within WSDOT right of way | WDFW | 7/06/04 | 8/25/08 | 94 | 282 |
| Large Woody Debris Removal Statewide GHPA ¹ | Allows the removal of woody debris and up to 50 cubic yards of bed load material at WSDOT water crossing structures | WDFW | 6/29/04 | 6/01/09 | 47 | 36 |
| Sediment Test Boring in Marine Waters Statewide GHPA¹ | Allows test boring and sediment sampling for WSDOT projects in all state marine waters | WDFW | 3/10/04 | 2/15/09 | 5 | 8 |
| Sediment Test Boring in Fresh Waters Statewide GHPA¹ | Allows test boring and sediment sampling for WSDOT projects in all state fresh waters | WDFW | 7/16/03 | 7/15/08 | 1 | 3 |
| Channelized Stream Maintenance | Allows 50 cubic yards sediment removal per project per year | WDFW | 6/28/04 | 6/01/09 | 3 | 23 |
| Maintenance of Fishway Facilities | Allows 50 cubic yards sediment removal per project per year | WDFW | 6/28/04 | 6/01/09 | 1 | 0 |
| Culvert Maintenance | Allows structural repair and allows 50 cubic yards sediment removal per project per year | WDFW | 6/10/04 | 6/01/09 | 29 | 10 ² |
| Culvert Replacement in Non-Fish Bearing Waters | Allows replacement of culvert in same location | WDFW | 6/10/04 | 6/01/09 | 0 | 0 |
| Marine Pile Removal and Replacement | Allows the replacement and removal of up to 40 piles per project in marine waters | WDFW | 3/07/05 | 3/05/10 | New | 5 |
| Aquatic Mosquito Control | Allows the application of pesticide to control mosquito species within WSDOT right of way | DOE | 5/10/02 | 5/10/07 | 24 | 86 |
| Nuisance Aquatic Plant and Algae Control | Allows the application of herbicide to control non- noxious invasive plant species within right of way | DOE | 7/05/02 | 7/05/07 | 7 | 0 |
| Aquatic Herbicide Application | Allows the application of herbicide to control noxious plant species within WSDOT right of way | DOE | 6/14/02 | 6/14/07 | 5 | 0 |
| Bridge Washing and Painting | Allows the routine maintenance washing and painting of bridges over water and ferry terminals | DOE | 4/03/04 | 4/03/09 | 25 | 37 |
| Pile Replacement and Repair in Freshwater Statewide | Covers the replacement or repair of piles, piers or abutments located on WSDOT structures in fresh- water throughout the state of Washington | WDFW | future permit | N/A | N/A | N/A |
| Seismic Retrofit in Freshwater Statewide | Covers the seismic retrofit of WSDOT structures in freshwater throughout the state of Washington | WDFW | future permit | N/A | N/A | N/A |
| | | | | | | |

¹ General Hydraulic Project Approva

² Culvert maintenance activities dropped because work was approved under individual Hydraulic project approvals, or because culverts didn't need cleaning due to site specific reasons (low rainfall and sediment deposition).

Environmental Programs: Annual Update

Improving Fish Passage

Road culverts can be physical barriers interrupting the migration and movement of salmon and resident fish. As scientific knowledge of fish capabilities at various stages of life has increased, culverts originally thought to allow for fish passage have come to be recognized as barriers. Removing these barriers and maintaining unobstructed fish passage corridors for salmon and resident fish is important for supporting the long-term recovery strategies for these species.

Inventory of Fish Passage Barriers

Since 1991, WSDOT and the Washington Department of Fish and Wildlife (WDFW) have worked cooperatively on a program to inventory and prioritize barrier culverts on streams that flow under our state highways. To date, WDFW has completed the WSDOT barrier inventory for 92% of culverts on the west side of the state. The total amount of inventory equates to 3,784 road miles out of a total of 7,045 miles, or 54% of the total highway system.

WDFW has inspected 803 of 5,853 highway crossings since last year, identifying 1,136 WSDOT-owned fish passage barriers where modification to the culvert or other water crossing would result in significant habitat gain. WSDOT has removed 180 of these barriers, improving access to more than 411 miles of stream habitat. To achieve the full environmental value of this work, other non-WSDOT barriers will also need to be corrected in the future.

2005 Fish Passage Barrier Removal Projects

Since the last report in the March 31, 2005 *Gray Notebook*, 12 fish passage barrier projects have been completed. The three projects listed below were completed in 2005 using dedicated funding to fix the highest-priority fish barrier sites.

SR 20 near Mazama, Little Boulder Creek (milepost 181.34) A new 26-foot-wide arched culvert replaced a 10-foot wide culvert with a six foot outfall drop (see pictures on right). The new culvert will allow chinook salmon and resident cutthroat trout access up to three miles of upstream habitat.

SR 106 near Union, Skobob Creek (milepost 0.85)

A 121-foot single span bridge replaced a six-foot concrete box culvert. Coho and chinook salmon, steelhead, and resident and sea-run cutthroat trout can now easily access over 500 acres of habitat. This project was a cooperative effort undertaken among WSDOT, the Hood Canal Salmon Enhancement Group, and the Skokomish Tribe.

SR 92 north of Lake Stevens, Stevens Creek (milepost 0.47)

A 13-foot concrete box culvert replaced a single three-foot round culvert, restoring access to over a mile of potential habitat for coho and kokanee salmon and other fish species.

2006 Fish Passage Barrier Removal Projects

The following stand-alone fish passage barrier projects will be completed during Summer 2006. For more information about these projects and others, see the May 2006 Progress Performance Report for WSDOT Fish Passage Inventory at www. wsdot.wa.gov/environment/fishpass/state_highways.htm and click on the 2006 report.

Fish Passage Barrier Removal Projects 2006

| Project Location (milepost) | Project Actions to Improve Fish Passage |
|--|---|
| U.S. 2 near Stevens Pass (70.21) | Replace an existing 11-foot metal culvert at Mill Creek with a 38-foot, bottomless plate arch culvert |
| SR 20 at Methow Valley near Twisp (205.82) | Replace two four-foot round pipes and a six-foot box culvert with a new 26-foot box culvert at Beaver Creek |
| SR 20 at Methow Valley near Twisp (206.87) | Replace two three-foot culverts at Frazer Creek with a 15-foot, three-sided structure |
| SR 112 at Bear Creek near Joyce (54.35) | Replace a six-foot-wide box culvert with an 18-foot-wide, three-sided concrete structure |
| SR 112 near Clallam Bay (24.91) | Replace two three-foot round culverts on a Physt River tributary with a 14-foot-wide concrete box |
| SR 142 at Snyder Canyon Creek (13.4) | Remove the existing concrete apron on the box culvert, and replace with a well-graded streambed to simulate natural stream conditions |
| SR 142 at Bowman Creek (20.2) | Remove a 12-foot box culvert and replace with a 60-foot bridge |

Source: WSDOT Environmental Services Office



BEFORE SR 20 near Mazama, Little Boulder Creek: A ten-foot culvert with a six foot drop created a fish passage barrier.



AFTER A new 26-foot wide culvert replacement on Little Boulder Creek contains no drop and restores fish passage.

Environmental Program: Annual Update

Noise Quality: Quieter Pavement Test Sections

Traffic noise is a growing concern for many people who live near major roadways and fast moving highways. When cars and trucks move at over 50 mph, 70% to 90% of the noise comes from the contact between tires and pavement. Although noise barriers like walls and earth berms can be effective at reducing noise for people who live next to roadways, WSDOT is looking for other ways to reduce noise for residents living further away and in locations where noise barriers are less effective. WSDOT is currently developing and installing quieter pavement surfaces in test locations to evaluate their effectiveness.

To be useful, this pavement surface needs to provide traction for safety, a smooth ride, adequate strength to support traffic, and long-term durability to minimize life cycle costs. It must also be quieter than other roadway surfaces (such as concrete and hot mix asphalt) over a sufficient period of time to be cost effective.

Hot mix asphalt pavements can be made quieter by placing an open-graded friction course, which is composed of smaller, more uniformly sized rocks that results in air pockets. Portland Cement Concrete can be made quieter one of two ways: (1) by diamond-grinding grooves in a pattern similar to corduroy into the surface of the existing pavement, or (2) by either longitudinally tining, or dragging AstroturfTM over, the wet surface of a new concrete pavement (see gray box for more information on these terms). All of these techniques allow some of the noise energy to be captured in the pavement and dissipated as heat.

Vocabulary for Quieter Pavement Testing

Carpet drag: Dragging AstroturfTM over the surface of new, wet concrete.

Transverse tining: "combing" the wet concrete surface across the lanes of traffic

Longitudinal tining: "combing" the wet concrete surface in the direction of traffic

OGFC-AR: open-graded friction course modified with asphalt rubber binder

OGFC-SBS: open-graded friction course modified with polymer modified binder

HMA: hot mix asphalt (WSDOT "standard" paving material)

Diamond ground concrete: grinding the surface bumps off of worn concrete and creating a corduroy-like texture in the direction of traffic.

Quiet Pavement Test Performance Measures

WSDOT is currently placing test sections of the quieter pavements in several locations around the state (see table on the next page). The agency will evaluate these test sections for a minimum of five years for both pavement and noise qualities. The evaluation will measure pavement smoothness, friction, wear (from studded tires), cracking, and how long the noise reduction benefits last.

Quiet Pavement Measures for Statewide Test Sections

| Pavement Condition Measures: Measured twice per year for five years (once in Spring and once in Fall) | | | | | | |
|---|--|--|--|--|--|--|
| Measures | Measurement Technique | | | | | |
| Smoothness | Smoothness levels are collected with a high accuracy laser measurement system | | | | | |
| Friction Friction assessment are collected with the WSDOT friction tester | | | | | | |
| Wear (aka Rutting) | Wear/Rutting levels are collected with a high accuracy laser measurement system | | | | | |
| Cracking | The WSDOT pavement condition van collects images of the roadway surface for assessing pavement cracking. | | | | | |
| Noise Tracking Measure | es: Measured once per month for the first year, re-evaluate frequency after the first year results are available | | | | | |
| Measures | Measurement Technique | | | | | |
| Noise quantity (decibels) | Direct tire against Pavement noise: sound intensity (a new way to measure) Pass-by measurements: noise meter on the side of the road In vehicle: emulating a person in a car | | | | | |
| Noise quality (noise frequency ranges) | Same as above | | | | | |

Source: WSDOT Materials Laboratory and WSDOT Environmental Services Office

Environmental Program: Annual Update

Noise Quality: Quieter Pavement Test Sections

The noise evaluation will be broken up into two criteria: quantity and quality. WSDOT will evaluate the quantity of noise by measuring total decibels coming from the tire to pavement interface. Quality will be evaluated by measuring the frequencies of sound generated from the tire to pavement interface. Higher frequencies tend to be more bothersome, while lower frequencies tend to be more soothing. WSDOT will post the results of pavement and noise testing on its website so the public can follow the progress of the studies: www.wsdot. wa.gov/biz/mats/pavement/QuieterPavements/.

To date, a states such as Arizona and California have evaluated quieter pavement options. On average, the quieter pavements have reduced the noise level by about four decibels (zero decibels is the threshold of human hearing), with slightly higher noise reductions accruing when the pavements are new. Washington State's testing, compared with other states, will factor in how studded tire wear and wetter climates affect the durability of quieter pavements and their noise benefits over time.

Washington State Highway Noise Reduction Test Sites

| | Construc- tion Year | Project Location | Test Section Comparisons | Existing | Expected Knowledge Gained |
|-----------|------------------------|--|---|---------------------------------------|---|
| I-90 | 2004 | Argonne Rd to Sullivan Rd (Spokane) | Carpet drag Transverse tining | New concrete | Noise and pavement durability in lower volume traffic with high studded tire use |
| I-5 | 2005 | Federal Way to 317th Street HOV Direct Access | Carpet drag Transverse tining | New concrete | Noise and pavement durability in high traffic environment |
| I-5 | 2006 | Pierce County Line to Tukwila | Carpet drag Longitudinal tining Transverse tining | New concrete | Noise and pavement durability in high traffic environment |
| I-5 | 2006 | 52nd Avenue West to SR-526 (southbound only) (Lynnwood) | OGFC-AR (approx. ¾ mile) OGFC-SBS (approx. ¾ mile) HMA (remaining project length) | Hot mix asphalt | Noise and pavement durability of two types of asphalt quieter pavement compared to standard asphalt in high traffic environment (including truck traffic) |
| | 2008- 2009 | 112th Avenue SE to SE 8th Street (north and south bound) | OGFC-AR (approx. 1 mile) OGFC-SBS (approx. 1 mile) HMA (approx. 1 mile) Diamond ground concrete | Hot mix asphalt and concrete | Pavement durability of two types of asphalt quieter pavement overlaid on concrete pavement and noise durability of a diamond ground concrete surface |
| SR 520 | 2007 | Test section location to be determined (east and west bound) | OGFC-AR (approx. ½ mile) OGFC-SBS (approx. ½ mile) HMA (approx. ½ mile) | Hot mix asphalt | Noise and pavement durability of two types of asphalt quieter pavement compared to standard asphalt for wayside homes because it covers both directions of traffic |

Source: WSDOT Materials Laboratory and Environmental Services Office

Environmental Program: Annual Update

WSDOT's Operational Improvements to Support Air Quality

Diesel emissions from transportation affect air quality and health for many people in Washington. WSDOT is reducing diesel emissions in a variety of ways and looking for additional opportunities in the future.

Yakima Diesel Retrofit Pilot Project Cuts Emissions 30%

In 2005 and early 2006, WSDOT worked with the Yakima Regional Clean Air Authority and the Washington Department of Ecology to retrofit WSDOT's diesel vehicles and equipment around the cities of Yakima, Union Gap, and Selah with filters that reduce soot and pollutants about 30%. This pilot project retrofitted 29 vehicles and equipment with tailpipe catalysts and 24 engine blow-by filters. The project was funded through a \$75,000 U.S. Environmental Protection Agency Grant and an additional \$9,000 from the Washington State Department of Ecology.

To assure success, Ecology helped WSDOT test engine fitness. An expert engine team from Pacific Marine and Donaldson worked with WSDOT mechanics to identify the right equipment sizes on which to install the retrofits. To date, the vehicles and equipment retrofitted in the three cities have performed well and WSDOT anticipates the retrofits will help keep emissions in check for the life of the vehicles.



Example of a light-emitting diode (LED) arrow sign board.

WSDOT Applies for More Retrofit Funding to Take a Bite out of Pollution

LED Lights Save Fuel and Reduce Pollution

WSDOT has partnered with the Oregon State Department of Transportation (ODOT) to re-apply for a \$400,000 grant through the West Coast Diesel Collaborative in January 2007. This grant would be used to replace incandescent lights on 152 arrow sign boards and warning lights with low energy use, light emitting diode (LED) lights. These retrofits target state maintenance vehicles. Replacement of these lights will allow WSDOT to turn off vehicle engines while still running warning lights when on the job. This will save fuel, reduce tailpipe pollution, reduce greenhouse gas emissions, and reduce engine wear from usage.

Retrofitting WSDOT's Maintenance Vehicles Will Reduce Pollution

WSDOT applied for \$1.5 million to retrofit maintenance equipment in the Puget Sound area using federal Congestion Mitigation Air Quality (CMAQ) funding. Three types of retrofits in King, Pierce, and Snohomish counties will be part of this project, if funding is approved.

- Replacement of incandescent warning lights with LED lights (like the Collaborative grant above) on about 160 vehicles.
- Replacement of standard diesel exhaust systems with diesel oxidation catalysts which reduce soot and tailpipe exhaust on about 260 vehicles.
- Installation of filters that reduce diesel emission straight from the engines on about 260 vehicles.

The engine and exhaust retrofits will reduce tailpipe pollution by about 30%. The LED retrofits will reduce emissions (including greenhouse gases) by 100% for the period when engines are turned off. This application has moved through the first round of recommendations, with final approvals coming from the Puget Sound Regional Council on October 26th, 2006.



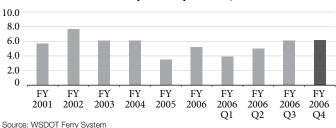
Example of truck targeted for LED light replacement.

Customer Feedback

In the fourth quarter of fiscal year (FY) 2006, WSDOT's Ferry System completed 41,915 trips. There were 6.1 million riders this quarter, and a total of 378 complaints. Complaints per 100,000 customers were 6.2, a 2% increase from the preceding quarter and a 71% increase from the same period last year. The fourth quarter fiscal year 2006 includes the months of April 2006 through June 2006.

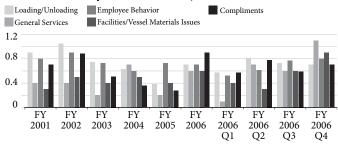
Total complaints for FY 2006 were up 58% from the previous fiscal year. However, fiscal year 2005 was the best year on record, and fiscal year 2006 performance is the second best year on record.

Total Number of Complaints per 100,000 Customers



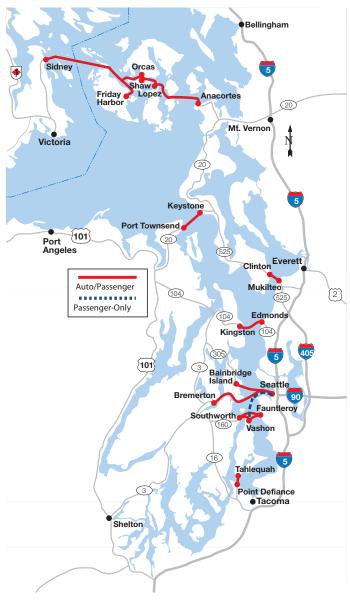
A total of 64 complaints about general service issues were received this quarter compared to 28 total complaints last quarter. This represents 1.1 complaints per 100,000 customers. In the same quarter last year, the Ferry System received only one complaint in this category. The increase was a result of a combination of seasonal increases of tourists and specific events such as the Seattle terminal evacuation on June 14, 2003. The second highest incident of customer complaints was in the facilities/ vessel materials issue category. The Ferry System experienced 55 complaints in this category, or 0.9 complaints per 100,000 customers. This is a 58% increase from the preceding quarter and an 89% increase (an increase of 26 complaints) from the same period last year. The new satellite ratio at Colman Dock and the new security announcements introduced this quarter

Common Complaints Per 100,000 Customers





Cyclists getting off the



received a large number of complaints. Customer compliments for the fourth quarter of FY 2006 increased by 10 (0.7 per 100,000) from the preceding quarter.

Trip Reliability

In the fourth quarter of FY 2006, there were 42,060 scheduled trips, of which 188 were cancelled; however, 43 make-up trips were made. The resulting number of completed trips was 41,915. Total completed trips is the actual trips after deducting net cancellations and adding make-up trips (42,060 - 188 + 43 = 41,915). The table on the right shows a system-wide average reliability index. Using this index, the Ferry System cancels an average of 1.4 ferry trips per year for a commuter who travels 200 days a year and makes 400 trips annually. This equates to an average of 0.02 trips per thousand riders. This is a 63% improvement in performance compared to the preceding quarter and a 100% improvement from the same period last year. This increase in trip reliability is related to completion of the planned closure at the Point Defiance-Tahlequah terminals during the preceding quarter (102 trips were cancelled during the closure).

In FY 2006, the Ferry System cancelled an average of 1.6 trips for a commuter who makes 400 trips annually.

On-Time Performance

This quarter, on-time trip performance totaled 37,950 trips and represents the total number of trips captured by the automated on-time monitoring system. In the fourth quarter of FY 2006, the average delay was 20% higher (0.6 minutes) than the preceding quarter (3.6 minutes average delay for this quarter).

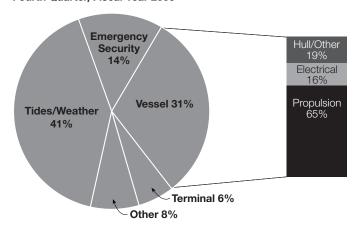
Reliability Index

Average Annual Missed Trips per Commuter

| FY 2001 | 1.6 |
|---------------|-----|
| FY 2002 | 2.3 |
| FY 2003 | 1.7 |
| FY 2004 | 2.2 |
| FY 2005 | 1.5 |
| FY 2006 | 1.6 |
| FY 2006 Qtr 4 | 1.4 |

A total of 81 trips for the Port Townsend-Keystone route were cancelled due to the weather and/ or tides. In fact, excluding trips lost to tidal conditions at Keystone, WSF completed 99.1% of all trips and had a reliability index of 0.4, per legislative direction. For FY 2006, WSF's performance adjusted for Port Townsend-Keystone was 99.94% trip delivery and a reliability index of 0.2. WSF continues to study alternatives and in harbor options at Keystone.

Most Common Trip Cancellations Fourth Quarter, Fiscal Year 2006



| Fourth Quarter FY 2005 | | | | Fourth | Quarter F | Y 2006 | FY 2000 | 6 | |
|------------------------------|--------------------|--|-------------|--------|--|-----------------------|---------|-----|-----------------------|
| Ferries | Number of Trips | Percent of Trips Within 10 Minutes of Schedule | Sched- | Number | Percent of Trips Within 10 Minutes of Schedule | Average Delay From | Number | | Average Delay From |
| San Juan Domestic | 6,011 | 84% | 4.1 minutes | 5,943 | 89% | 2.8 minutes | 25,896 | 84% | 3.8 minutes |
| International Route | 218 | 73% | 7.9 minutes | 14 | 100% | 0.7 minutes | 638 | 78% | 8.2 minutes |
| Edmonds-Kingston | 4,493 | 96% | 3.0 minutes | 4,500 | 96% | 3.0 minutes | 18,015 | 90% | 4.2 minutes |
| Pass-Only Seattle-Vashon | 988 | 99% | 1.7 minutes | 369 | 99% | 2.1 minutes | 1,812 | 98% | 2.1 minutes |
| Fauntleroy-Vashon-Southworth | 9,526 | 94% | 3.2 minutes | 9,560 | 93% | 3.4 minutes | 40,633 | 91% | 3.7 minutes |
| Keystone-Port Townsend | 7,720 | 89% | 3.9 minutes | 1,717 | 88% | 4.5 minutes | 8,469 | 86% | 5.0 minutes |
| Mukilteo-Clinton | 6,421 | 99% | 1.9 minutes | 6,421 | 99% | 2.0 minutes | 26,315 | 97% | 2.5 minutes |
| Pt. Defiance-Tahlequah | 3,040 | 97% | 2.7 minutes | 2,952 | 98% | 2.6 minutes | 12,036 | 95% | 3.5 minutes |
| Seattle-Bainbridge Island | 4,046 | 96% | 3.2 minutes | 3,976 | 95% | 3.5 minutes | 16,267 | 90% | 4.4 minutes |
| Seattle-Bremerton | 2,475 | 98% | 2.4 minutes | 2,498 | 98% | 2.6 minutes | 9,778 | 98% | 2.8 minutes |
| Total | 38,938 | 94% | 3.0 minutes | 37,950 | 94% | 2.9 minutes | 159,859 | 91% | 3.6 minutes |

A total of 91% of trips sailed on-time, a slight decrease from the preceding quarter (3.2%). A trip sailing on-time will be within ten minutes of its published sailing schedule.

The table at the bottom of the previous page compares ontime performance across the system for the fourth quarters of FY 2005 and FY 2006. Comparing these quarters, the average delay time improved slightly from a 3.0 minute delay to a 2.9 minute delay per departure. The average percentage of trips sailing on-time remained the same for both quarters (94%).

In FY 2006, the Ferry System completed 159,859 trips compared to 160,743 from the previous year, a decrease of 884 trips. There was an average delay of 3.6 minutes for all trips. This time was a 0.2 minute decrease (5.6%) from FY 2005. In FY 2006, 91% of trips sailed within ten minutes of their scheduled departure time. This was a 1% improvement from the previous year.

Explanation of Key Terms

Systems Preserved - This measure focuses on performance of work planned and work delivered. The work measured is the number of terminal and vessel systems refurbished or replaced.

Life Cycle Rating - A life cycle rating is a percentage calculated by dividing the number of system structures weighted by their costs that are within their life cycle by the total inventory of systems weighted by costs. This measure focuses on program performance. It reflects the favorable impact of the organization's work achieved, offset by the unfavorable impacts of deferred preservation backlogs and on-going deterioration of the infrastructure.

In January 2001, the Legislature's Joint Task Force on Ferries recommended WSDOT work toward achieving a life cycle rating for Category One systems between 90% and 100% and for Category Two systems between 60% and 80%. The Task Force set FY 2011 as the target year for achieving this objective.

Category One systems are those designated by regulatory agencies as "vital" to the protection of people, the environment, and infrastructure. Included are vessel and terminal systems necessary to start, keep in motion, stop, land, and unload a vessel.

Category Two systems are all other terminal and vessel systems.

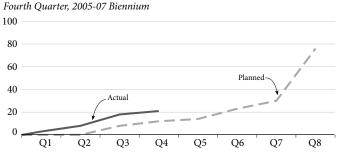
Ferries Life Cycle Preservation Performance

The Ferry System plans to replace or refurbish 76 Category One systems and 82 Category Two systems during the 2005-07 biennium. Through the end of the fourth quarter of FY 2006, 21 Category One systems and 20 Category Two systems have either been refurbished or replaced.

The work plan addresses backlogs in the systems that are past due, and on-going deterioration of remaining systems. It measures the impacts and investments by life cycle ratings. Based on the level of investment improvements authorized by the 2005 Legislature, the life cycle rating of Category One

Category One Terminal and Vessel Preservation Performance

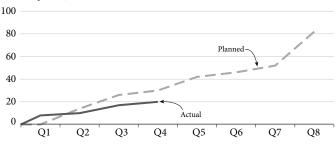
Cumulative Planned Projects vs. Actual Systems/Structures Preserved Change in Life Cycle Cost Rating



Source: WSDOT Ferry System

Category Two Terminal and **Vessel Preservation Performance**

Cumulative Planned Projects vs. Actual Systems/Structures Preserved Change in Life Cycle Cost Rating Fourth Quarter, 2005-07 Biennium



terminal and vessel systems is projected to increase from 80% to 81% from the beginning to the end of the biennium. Category Two system life-cycles are projected to increase from 51% to 52% this biennium.

Capital Expenditure Program

WSDOT makes capital investments in the Ferry System through the WSF Construction Program. This program preserves existing terminals and builds new ferry terminals and vessels. The resulting infrastructure gives the Ferry System the physical capability to deliver responsible and reliable marine transportation services to riders.

At the end of June 2006, a total of \$90.1 million was spent for the 2005-07 biennium on capital investments. The total expenditures planned through June 2006 were \$95.3 million. Currently, the Ferry System is \$5.2 million under its planned expenditures. There are three reasons for this:

Vessel Construction Biennium-To-Date

Vessel construction biennium-to-date activities are under spending the plan by \$2.2 million.

Terminal Construction Biennium-To-Date

Terminal construction activities are under spending the plan by \$2.8 million.

Emergency Repair Biennium-To-Date

Emergency repair activities are under spending the bienniumto-date plan by \$0.1 million.

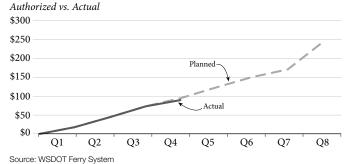
Ridership and Revenues

Fiscal year to date, ridership is slightly lower than the forecasted plan by 0.4%, or roughly 94,000 passengers. However, ridership is virtually the same compared to the same quarter last year. Passenger only ridership on the Vashon-Seattle ferry route is 27.5% lower than the same period last year, or 34,000 passengers. Under direction from the Legislature, the Ferry System reduced service in September and now offers passenger-only service to Vashon Island for the morning and the afternoon commutes.

Fiscal year to date, the Ferry system has received nearly \$140 million in revenues, which is 5.2%, or \$6.9 million more in fare revenue than the same period last year. When compared to the forecasted plan, revenues are up \$1.5 million, or 1.1% above plan.

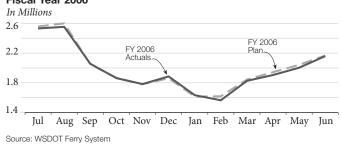
Construction Program Expenditures Washington State Ferry System

Through Fourth Quarter, 2005-07 Biennium Cumulative Dollars in Millions



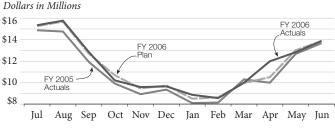
Ridership by Month

Fiscal Year 2006



Farebox Revenues by Month

Fiscal Year 2005-06



Rail: Quarterly Update

State-Supported Amtrak Cascades

Ridership

Ridership on state-supported Amtrak *Cascades* trains totaled 106,334 in the second quarter of 2006. This total is 2.4% below the second quarter total for 2005. Ridership was down 6.8% in April and 3.4% in May when compared to the same months in 2005. However, it rebounded in June to surpass the 2005 monthly total by 2.8%.

In the first six months of the year, state-supported Amtrak *Cascades* ridership totaled 183,668, which is almost 6% lower than the first half of 2005. Winter mudslides, poor on-time performance, and fewer seats available due to repairs on four Amtrak *Cascades* coach cars contributed to the drop in ridership levels. WSDOT expects the ridership gains observed in June to continue through the rest of the year, which will primarily be driven by a new daily round trip added to the Amtrak *Cascades* schedule on July 1, 2006.

On-Time Performance Improves Slightly

On-time performance for state-supported Amtrak *Cascades* trains averaged 49% in the second quarter of 2006, compared to 55.6% in the second quarter of 2005. While on-time performance improved 24% when compared to the last reporting quarter, it is still below WSDOT and Amtrak's goal of at least 80% on-time.

In early May 2006, WSDOT, BNSF Railway, and Amtrak management met to discuss Amtrak *Cascades*' low on-time performance. The goal was to identify and implement strategies to bring Amtrak *Cascades* schedule reliability up to the goal of 80% on-time or better. Since the meeting, total delay minutes experienced by all Amtrak *Cascades* trains (from Eugene, Oregon to Vancouver, B.C.) fell from 3,333 minutes per week in mid-May to 2,367 minutes per week in early June. However, by the last week of June, total delay minutes per week rose to 3,161. This increase was caused by freight train interference from Union Pacific trains between Eugene and Portland. There were also several major track improvement projects on the BNSF main line in Washington that caused trains to slow down during construction.

WSDOT is hopeful that recent efforts to modify some operating practices by BNSF and a reduction in mechanical problems experienced by Amtrak will continue to drive Amtrak *Cascades* on-time performance toward the goal of 80% or better.

New Amtrak Cascades Service Added

In the second quarter of 2006, WSDOT and Amtrak worked together to prepare for the launch of a fourth Amtrak *Cascades* round trip train between Seattle and Portland. Inaugural

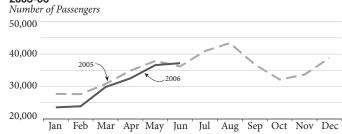
celebrations were arranged for the train stations in Bellingham, Seattle, Centralia, and Portland. Local media were also contacted in advance. This resulted in several articles in Pacific Northwest newspapers and stories on local television.

The new service began operations on July 1, 2006. An analysis of the ridership impact of this new daily round trip train will be featured in the next *Gray Notebook*.



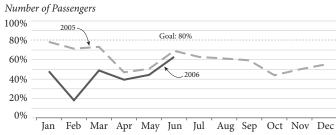
WSDOT Secretary Doug MacDonald commemorates expanded Amtrak *Cascades* service on July 1, 2006.

State Supported Amtrak Cascades Monthly Ridership 2005-06



Source: Amtrak and WSDOT Rail Office.

State Supported Amtrak Cascades **On-Time Performance: 2005-06**



Source: Amtrak and WSDOT Rail Office.

The on-time performance goal for Amtrak Cascades is 80% or better. A train is considered on-time if it arrives at its final destination within 10 minutes or less of the scheduled arrival time.

Rail: Quarterly Update

Washington Grain Train

WSDOT initiated the Grain Train program to help alleviate a shortage of grain cars. Since its inception, the Grain Train has become a financially self-sustaining transportation program. It supports the state's agricultural community, while helping short line railroads maintain a sufficient customer base for long-term financial viability.

WSDOT Repositions Grain Train Cars

WSDOT and the Port of Walla Walla own 89 grain cars which help Washington farmers move grain to market. There are 29 cars positioned on the Columbia Basin Railroad, which extends from Moses Lake to Connell. These cars continue to be used regularly to carry grain to the Port of Portland, the Port of Vancouver, and the Port of Kalama.

Late last year the cost to ship grain to the coast on the Palouse & Lewiston branch (P & L branch) of the Palouse River and Coulee City Railroad (PCC) rose sharply. The P & L branch also extends to Pullman on the BNSF mainline near Cheney. The increase in costs made it economically impossible for farmers to ship grain to the coast by rail.

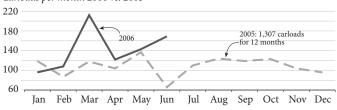
As a result of this economic shift, WSDOT repositioned its cars from the P & L branch to the Pleasant Valley (PV) Hooper branch of the PCC. The PV Hooper branch extends from Thornton to Hooper Junction and from Pullman to Hooper Junction. The grain no longer continues on the rail lines to the coast, but is instead emptied into barges on the Snake River at Wallula for river transport to the Vancouver and Portland area.

A final set of cars is used on the Blue Mountain Railroad, which extends from Dayton through Walla Walla to Wallula. The grain in these cars is also emptied into barges for river transport to the coast.

Three elements decreased shipping costs: the continued strong use of grain train cars on the Columbia Basin Railroad, cars repositioned from the P & L line and the shift to the rail to barge methods of operation. Carloads for the second quarter of 2006 increased 41% from the second quarter of 2005. There were 434 carloads shipped in the second quarter of 2006 compared to 307 in 2005. Staff will continue to monitor car usage and changes in the economics of grain transportation to maximize use of the grain train cars and to ensure Washington State grain growers continue to benefit from its use.

Washington Grain Train Carloads

Carloads per month 2006 vs. 2005



Source: WSDOT Rail Office

Special Feature Incident Response Screens

Incident Response Screen Pilot Project

Portable incident response screens are designed to block the view of traffic and decrease traffic delays from rubbernecking. As noted in the December 31, 2005, issue of the *Gray Notebook* (p. 73), WSDOT's Eastern Region planned to test a portable traffic incident response screen system. The pilot test was held on April 27, 2006, at 4:00 pm, on the eastbound shoulder of I-90 near the Idaho border. WSDOT personnel and a Washington State Patrol (WSP) trooper were on-site to observe the test.

Set-up Time and Wind Speed Increase Risks

A vehicle was parked on the shoulder and the Incident Response vehicle rolled up to the location. It took one person 20 minutes to set-up two sections of the screens (60 feet).

Setup time is a concern; a set-up time of 20 minutes or longer greatly limits the benefits of the screen and its effectiveness to reduce traffic delays due to rubbernecking. The weight of the screen and assembly of its components are factors that affect the set-up time.

Another significant issue is wind. Wind speeds between 10-15 mph tipped the screen over on its side. Slats cut into the fabric to prevent it from blowing over were not effective. Wind gust from passing trucks, measured at up to nine mph, also destabilized the screen.

State Patrol and Emergency Services Personnel Express Safety Concerns

WSDOT also gathered information on driver response to the screen. Data was collected on traffic flow and traffic volumes using real-time traffic volume information, and traffic activ-

> The top of a WSDOT Incident Response Truck peeks over a Portable Incident Screen.

ity was recorded to capture driver reaction. However, due to lighting conditions, it was very hard to see these reactions on the tape.

Traffic speeds decreased 10-15% during the test. However, it could not be determined how much of this reduction was due to the portable screen and how much was normal slowing due to the "incident". Further, a driver in the fast lane almost lost control of his vehicle due to the slowdown.

Additionally, emergency services personnel and WSP expressed concern that the screen would block their line of sight to oncoming traffic, limiting their ability to react to an errant vehicle.

WSDOT Decides to Stop Development of Portable Incident Response Screens

Test results indicated the portable incident screen design had significant operational problems and would not be practical for general deployment. The need to reduce set-up time and improve wind stability are critical design elements to address in order to move this initiative forward. Acceptance by emergency services, WSP, and WSDOT Incident Response staff also presents challenges to using portable screens.

WSDOT's conclusion is that this particular prototype cannot be effectively deployed. Unless the obstacles can be overcome, use of the screen system could increase the risks of a secondary incident. While there may be some benefits from the use of portable incident screens, the tests showed risks were higher than expected, which negates potential benefits. Due to this risk, further development of portable incident screens is not planned.



Portable screen is blown over from wind during April 27, 2006 test.

Overview of The Transportation Benchmarks

On August 20, 2003, the Washington State Transportation Commission adopted a set of benchmarks to measure the performance of the state's transportation system. Benchmark development was guided by the requirements of the Revised Code of Washington (RCW) 47.01.012, which established policy goals in the areas of safety, pavement condition, bridge condition, traffic congestion and driver delay, per capita vehicle miles traveled, non-auto share of commute trips, administrative efficiency, and transit cost efficiency. These policy goals are the basis for the performance benchmarks discussed here.

This update includes the latest results for the transportation benchmarks first introduced two years ago. For more background and information about the development of each benchmark, including issues related to data quality and availability, measure effectiveness, and benchmark intent, see the Transportation Benchmarks Implementation Report (August 2003), which is available on-line at www.wsdot.wa.gov/accountability/benchmarks/.

Some of the policy goals establish a general standard or target to assess achievement, such as "improving safety" or "none in poor condition." Others are closer to the traditional definition of benchmarking: measuring Washington's performance or comparing Washington to other states to gain information that will help WSDOT improve its performance.

Safety Goal

The benchmark law established a goal to improve safety. While many criteria and measures are used to track safety on the state transportation system, the Transportation Commission and WSDOT use the state motor vehicle fatality rate to determine progress.

Based on the national Fatality Analysis Reporting System (FARS) numbers, the 2005 Washington State fatality rate was 1.17 deaths per 100 million vehicle miles traveled (VMT) on all Washington roadways, while the total fatality count shows 649 people killed in motor vehicle collisions. In addition, six other people died on the highways in non-motor-vehicle-related accidents. For more information, see the gray box to the right.

In 2004 (the most recent year for which state-by-state data is available) Washington ranked as the 6th state in the nation for fewest road fatalities, averaging 1.02 deaths per 100 million VMT. By comparison, the national average was 1.44 fatalities per 100 million VMT.

For an in-depth analysis of the highway safety statistics, please refer to the Highway Safety Annual Update on page XX of this edition of the *Gray Notebook*.

Washington Motor Vehicle Total Fatalities and Fatality Rates



Sources: Washington State Highway Transportation Commission, Washington State Patrol, Fatality Analysis Report System (FARS), Office of Financial Management, Dept. of Licensing, WSDOT

FARS Fatality Count and WSDOT Fatality Count

The Fatality Analysis Reporting System (FARS), used by the Washington State Traffic Safety Commission and developed by the National Center for Statistics and Analysis, uses data similar to WSDOT's benchmarks when calculating fatality rates. Both FARS and WSDOT data exclude certain fatalities: fatal collisions that are ruled suicides; deaths due to natural causes rather than injuries received in the collision; and collisions that occur on private roadways. If a FARS analyst confirms that the facts of the collision in the police report need to be changed to recategorize a fatality, then WSDOT's data will be changed to reflect that. This year, FARS has no outstanding death certificates, and therefore there is no difference between WSDOT and FARS data based on late death certificates.

There are key differences between the two systems, however. To qualify as a FARS case, there must be a motorized vehicle involved in the crash, per the nationally recognized definition. WSDOT, in following the direction given by the Blue Ribbon Commission on Transportation, considers non-autorelated fatalities on the highways. In addition, FARS does not count traffic fatalities due to natural catastrophic events, whereas WSDOT does count those fatalities. The preliminary FARS count for 2005 is 649 deaths in Washington State, which amounts to a fatality rate of 1.17 deaths per 100 million VMT. WSDOT's data includes six more fatalities: three fatalities associated with an I-90 rock slide; one bicycle accident in which a pedestrian was killed, one two-bicycle accident in which one bicyclist was killed, and one solo bicycle accident fatality. This puts the total highway fatalities tabulated by WSDOT to 655, and the fatality rate at 1.18 per 100 million VMT, compared to the 1.17 reported by FARS.

Pavement Condition Goal

The benchmark law enacted in 2002 established a goal that no interstate highways, state routes, and local arterials should be in poor condition. Pavement is in good condition if it is smooth and has few defects. Pavement rated in poor condition is characterized by cracking, patching, roughness, and rutting.

Pavement data for calendar year 2005 is not yet available. Therefore, this report will re-publish last year's data, which is up to and including calendar year 2004 data. Calendar year 2005 data will be available in the Pavement Assessment Annual Update in the December 2006 *Gray Notebook*.

State Highway Pavement

WSDOT has been rating pavement conditions since 1969. The graph to the right shows pavement trends from 1973 to 2004. WSDOT uses Lowest Life Cycle Cost (LLCC) analysis to manage two types of pavement for preservation, chip seal and Hot Mix Asphalt (HMA). (Concrete is the third type). The principles behind LLCC are that if rehabilitation is done too early, pavement life is wasted; if rehabilitation is done too late, very costly repair work may be required, especially if the underlying structure is compromised. WSDOT continually looks for ways to best strike the balance between these two basic principles.

While the goal for pavement is zero miles in "poor" condition, marginally good pavement may deteriorate into "poor" condition during the lag time between assessment and actual rehabilitation. A small percentage of marginally good pavement may move into "poor" condition for any given year. WSDOT's policy goal for the 2003-05 biennium was to maintain 90% of all pavement types in "fair" or better condition.

In 2003, the percent of all state highway pavement in "poor" condition increased to 10%, up from 9.3% as reported in the 2002 pavement survey. In 2000, there were 1,068 lane miles (6.1%) of pavement in "poor" condition. In 2003 the total was 1,774 lane miles, and in 2004, 1,797 or 10.1%. Since 2000, WSDOT has seen an increase of 729 lane miles in "poor" condition.

In 2003, 79 more chip seal lane miles fell into "poor" condition, bringing the total to 3.3% of all state highway lane miles. Contributing factors may include the annual pavement condition survey being conducted before chip seal construction, and the fact that small roadway sections are combined to create more cost-effective regional contracts and achieve an economy of scale. This leads to some pavement not getting fixed immediately. For 2003, the increase in "poor" condition of HMA was 51 lane miles, to a total of 5.8% of state highway lane miles. Total lane miles of concrete in poor condition remained the same from 2002 to 2003.

From 2003 to 2004, 21 more chip seal lane miles fell into "poor"

condition; total chip seal lane miles in "poor" condition were 3.4%. The condition of HMA improved from 2003 to 2004; 162 fewer lane miles were in "poor" condition, or 4.9% of total lane miles. Total lane miles of concrete in "poor" condition increased to 152 miles or 1.8% of the total. This is attributable to more faulting and cracking in the concrete leading to an increase in roughness of ride. As noted in the December 31, 2004 *Gray Notebook*, WSDOT is working with the University of Washington to develop a method to predict when concrete pavement will need rehabilitation and hopes to have an explanation for this suddFen deterioration by the end of 2005.

Local Arterial Road Pavement

The local arterial road network is surveyed every biennium. Updated data will be available in the next benchmarks report. For more information on arterial road conditions, please see Washington's City Arterials Condition Report 2004, available at www.wsdot.wa.gov/TA/T2Center/Mgt.Systems/Pavement-Technology.

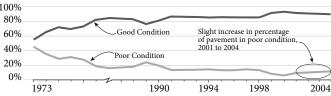
As of December 31, 2004, WSDOT owns and maintains 20,002.88 lane miles of highway, including ramps, collectors, and special use lanes. Special use lanes include High Occupancy Vehicle (HOV), climbing, chain-up, holding, slow vehicle turnout, two-way turn, weaving/speed change (previously referred to as auxiliary), bicycle, transit, truck climbing shoulder, turn and acceleration lanes. Special use and ramp/collector lane miles make up 1,688.02 of the 20,002.88 lane miles. There are approximately 69 lane miles under construction.

Pavement Condition Rating Summary 2000-2004

Percent of Pavement in Poor Condition

| 2000 | 2001 | 2002 | 2003 | 2004 |
|------|------|------|------|------|
| 6.1 | 8.9 | 9.3 | 10.0 | 10.1 |

State Highway Pavement Trends, 1973-2004



Source: WSDOT

Note: This data is that same data that was reported in the previous benchmarks report. Data for 2005 is not yet available.

Bridge Condition Goal

The benchmark law established a goal for no bridges to be structurally deficient, and for safety retrofits to be performed on state bridges at the highest seismic risk levels. WSDOT tracks bridge condition but does not use the "zero deficient bridge" goal. Moving to the "zero deficient bridges" standard would promote cheap and fast fixes that would ultimately be counterproductive. A "zero deficient bridge" approach would require setting aside WSDOT's Bridge Management System (BMS), which is the basis for preserving bridges to get optimum service life.

The structural deficiency rating is based on inspection findings, and does not measure important cost-effective preservation activities. At the same time, some bridges are more vital and expensive than others. BMS considers the cost-effectiveness of several feasible corrective actions for any given bridge deficiency, providing cost-effective indices for each potential action in various time periods.

Bridge Condition Results

This report provides data for fiscal year 2006 (July 2005 – June 2006). WSDOT's policy is to maintain 95% of its bridges at a structural condition of at least fair, meaning all primary structural elements are sound. In 2006, 2.5% of bridges showed a condition rating of "poor." (This is rounded to 3% in the table below).

No bridge currently rated as "poor" is unsafe for public travel, but some bridges may have structural deficiencies that restrict the weight and type of truck traffic allowed. Any bridge determined to be unsafe is simply closed to traffic. In 2006, WSDOT did not close any bridges due to unsafe conditions.

Bridge Seismic Retrofit Program

WSDOT's Bridge Seismic Retrofit Program prioritizes state bridges for seismic retrofit, and performs these retrofits as funding permits. The number of seismic projects does not

Bridges in the Seismic Retrofit Program

Cumulative 1991-2005, 2006

| | 1991-2005 | 2006 |
|--|-----------------|------|
| Completely retrofitted | 191 | 195 |
| Partially retrofitted | 162 | 163 |
| No work done to date | 569 | 5471 |
| Under Contract for work | 15 (in 2005) | 15 |
| Total Bridges in Seismic Retrofit Program | 937 | 9201 |

¹ The number of bridges in the seismic retrofit program decreased in 2006 due to further analysis that determined that some bridges do not warrant a retrofit.

Source: WSDOT Bridge Office

match perfectly with the number of bridges; a seismic retrofit project may encompass more than one bridge, while one bridge might have multiple retrofit projects planned. Some bridges have been partially but not completely retrofitted to withstand earthquake forces.

A total of 920 bridges are part of the Bridge Seismic Retrofit Program. Retrofit priorities are based on seismic risk of a site, structural detail deficiencies, and route importance. From 1991 to the end of June 2006, WSDOT has fully or partially retrofitted 358 bridges: 195 bridges are completely retrofitted, and 163 are partially retrofitted. Fifteen additional bridges are under contract to be retrofitted.

As of June 30, 2006, 547 bridges need complete retrofits, in addition to the 163 that have been partially completed. These two groups combine for a total of 710 bridges left to be retrofitted for earthquake safety.

The 2005 Transportation Partnership Account (TPA) fund includes \$87 million to perform bridge seismic retrofits on bridges designated "High" and "Moderate" risk. Design and construction is scheduled to start after July 2007 and be completed in eight years.

Bridge Structural Condition Ratings

| • | · · | | | | | | | |
|----------|--|------|------|------|------|------|------|------|
| Category | Description | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
| Good | A range from no problems to some minor deterioration of structural elements. | 84% | 85% | 87% | 86% | 87% | 89% | 88% |
| Fair | All primary structural elements are sound but may have deficiencies such as minor section loss, deterioration, cracking, spalling, or scour. | 11% | 11% | 10% | 11% | 10% | 9% | 9% |
| Poor | Advanced deficiencies such as section loss, deterioration, cracking, spalling, scour, or seriously affected primary structural components. Bridges rated in poor condition may be posted with truck weight restrictions. | 5% | 4% | 3% | 3% | 3% | 2% | 3% |

Source: WSDOT Bridge Office

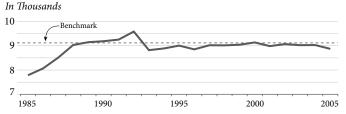
Per Capita Vehicle Miles Traveled Goal

The benchmark law established a goal for Vehicle Miles Traveled (VMT) per person to be maintained at 9,133, the level it was when the benchmarks were developed in 2000. In calendar year 2005, Washington State citizens traveled 8,869 vehicle miles per person on all roadways, down from 9,026 in 2004, and below the benchmark level of 9,133 miles per person. Since the late 1980s, annual VMT per person in Washington has stayed at roughly 9,000 miles per person, meaning the number of vehicle miles traveled throughout the state has grown at roughly the same pace as the number of new residents.

VMT is influenced by a range of trends in population, economy, land use, and employment, as well as investment in the transportation system. For 2005, the decline in per capita VMT was likely influenced by the spike in gasoline prices in the Summer and Fall of 2005. Anecdotal evidence indicates that residents curtailed their "discretionary" travel (such as for summer vacations), and WSDOT data shows a substantial increase in commuter interest in ridesharing, particularly in the vanpool program (as reported in the December 31, 2005 edition of the *Gray Notebook*, p 64).

Although it is difficult for WSDOT to directly influence the public's traveling patterns, the Commute Trip Reduction (CTR) program supports this goal by working with employers to reduce VMT to their worksites. The commute VMT per CTR employee decreased from 8.7 miles per day in 1997 to 8.3 miles per day in 2005, even as CTR employees continued to live farther away from their worksite.

Annual Vehicle Miles Traveled per Capita 1985 to 2005*



* The method for calculating VMT changed in 1993 as more complete data became available. This accounts for the decrease shown in the graph from 1992 to 1993.

Source: WSDOT Transportation Data Office and Office of Financial Management

Administrative Efficiency Goal

The benchmark law established a goal that WSDOT's administrative cost as a percentage of transportation spending achieve the most efficient quartile nationally. Finding common ground for comparisons of administrative efficiency among state Departments of Transportation (DOTs) is very difficult. Each DOT accounts and tracks for expenditures in different ways, and the state DOTs vary widely in structure, size, and function, with the result that there is little direct comparability among the "administrative" activities.

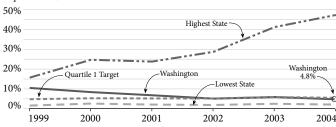
The best national source of financial information is the Federal Highway Administration's (FHWA's) annual Highway Statistics report. WSDOT uses the general administration cost (line item A.4.a.) as a percentage of capital outlay, maintenance, and operations expenditures, to make the national comparison. While FHWA cautions strongly against using these numbers to compare states, all state DOTs complete the report annually, and it is the only national source for administrative costs. FHWA presents the data by fiscal year, and collects fiscal year data in the winter to publish the next fall. Therefore, the most recent information for which data is available is fiscal year 2004.

In 2004, Washington's administrative cost was 4.8%, putting it at 9th-lowest nationally and inside the first quartile. This is down from 5.9% in 2003. A number of variables affected administrative cost reporting from 2003-04. In 2004, reduced WSDOT expenses included savings realized from staff position vacancies, a reduction in health care premiums, and elimination of funding for information technology projects. Also, in 2004 WSDOT spending for the highway construction program increased due to the 2003 "Nickel" Transportation Funding package.

The lowest state, Louisiana, was at 2.1%, and the highest state, Delaware, was at 47.3%.

Washington Administrative Cost Target

Percent of Capital Outlay, Maintenance, and Operations Expenditures, 1999-2004



Source: Federal Highway Administration Highway Statistics 2004

Non-Auto Share of Commute Trips Goal

The benchmark law established a goal to increase the non-auto share of commute trips. WSDOT and the Transportation Commission interpret this benchmark as the measure of the combined ability of many different transportation agencies to provide alternatives to drive alone commuting. The commute patterns for the state are calculated using data collected annually by the U.S. Census Bureau's American Community Survey (ACS).

Slight changes from year to year in the commute patterns and trip distribution do not constitute a trend; these changes generally are not statistically significant unless indicated. Washington's 2004 commute trends, according to the ACS, showed a statistically significant growth in walking as a means of traveling to work, compared to the 2000 ACS commute trends (from 2.4% to 3.2%). Carpooling, transit, and other means showed a statistically significant decrease from the 2000 commute mode share. The drive-alone share of commuting in 2004 was not significantly different than the share in 2000. See the table below for complete results.

One of WSDOT's programs that influences the non-auto share of commute trips goal is the Commute Trip Reduction (CTR) program. The CTR program works with major employers in the state's nine most populous counties to encourage employees not to commute alone. The goals for the program are to reduce traffic delay, air pollution, and energy use. About 560,000 employees at more than 1,100 work sites in the state have access to CTR programs.

The percentage of commuters who drive alone to CTR worksites declined from 66.3% in 2003 to 65.7% in 2005. Overall, the percentage of commuters who drive alone to all CTR sites declined more than 7% from 1993 to 2005, and the drive-alone rate for the program remains below the state and national drive-alone rate. The drive-alone rate for those employers with complete data that began the program in 1993 declined more than 14% from 1993 to 2005.

Traffic Congestion and Driver Delay

WSDOT calculates annual changes in the peak period travel times for 12 Central Puget Sound commutes to track congestion trends. Information on congestion measures will be published later this year in the *Gray Notebook*.

Washington State Commuting Patterns – Workers 16 and Over, 2000-2004

| | 2000 | 2001 | 2002 | 2003 | 2004 | Change from 2000-2004 | Statistically Significant? |
|------------------------------|-----------|------------|-----------|-----------|-----------|-----------------------|-------------------------------|
| Total Workers 16 yrs & Older | 2,753,377 | 2,739,1131 | 2,760,912 | 2,793,978 | 2,800,303 | 1.7% | N/A |
| Drive Alone | 73.8% | 74.4% | 74.7% | 73.8% | 75.3% | 1.5% | no |
| Carpool | 11.5% | 11.5% | 11.4% | 11.3% | 10.3% | -1.2% | yes |
| Public Transportation | 5.1% | 5.5% | 4.6% | 5.0% | 4.3% | -0.8% | yes |
| Walked | 2.4% | 3.1% | 3.0% | 3.2% | 3.2% | 0.8% | yes |
| Other Means | 2.4% | 1.8% | 1.8% | 2.2% | 1.7% | -0.7% | yes |
| Worked at Home | 4.8% | 3.8% | 4.5% | 4.6% | 5.2% | 0.4% | no |

Source: U.S. Census Bureau, American Community Survey, 2001 to 2004

In the June 30, 2005, Gray Notebook, Total workers 16 yrs and older was reported incorrectly as 2,729,113. The correct number was 2,739,113.

Transit Cost Efficiency Goal

The benchmark law required the Transportation Commission to establish a cost efficiency benchmark for the state's public transit agencies. To accomplish this mandate, the Commission worked with the Washington State Transit Association (WSTA), which proposed four measures to address cost efficiency, cost effectiveness, and service effectiveness. This report, prepared by WSTA, updates these four measures with 2004 data. The transit summary data for 2005 has not yet been finalized.

The four adopted benchmarks compile statewide averages for fixed-route (scheduled) service at urban, small urban, and rural transit agencies, and statewide averages for demand response (on-call paratransit) and vanpool services. This allows comparisons of the state's similar transit agencies with each other, although there are still important differences between the agencies. Identifying national peers for benchmarking is also difficult due to the large variations among systems in size, government support, fare levels, costs, and purposes, as well as data collection processes.

WSDOT's annual Washington State Summary of Public Transportation Systems provides an overview of each system and is a data source for the transit benchmarks calculated by WSTA. This report is available online at www.wsdot.wa.gov/ Transit/. The National Transit Database was used to calculate the passenger mile measure. Also, see the Transportation Benchmarks Implementation Report (at www.wsdot.wa.gov/ accountability/benchmarks/BenchmarksImplementationReport.pdf) for more background on benchmark limitations, measure development, recent trends, and comparing services and system types.

Operating Cost per Total Hour

Costs are directly related to the size of the transit system and the nature of the area served. Larger transit systems are more complex and incur costs for fixed facilities (transit centers, park-and-ride lots, etc.), security, and other areas that are not cost items for smaller systems. They also operate larger equipment in metropolitan areas with higher wage structures than small systems. The 2004 data shows a modest increase in cost per hour for urban systems with a significant increase in the cost per hour for small urban and rural systems.

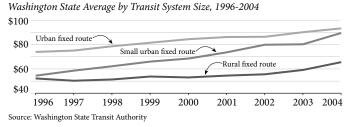
A closer review of the data indicates this increase reflects significant cost increases at two of the six agencies in the small urban category, Whatcom Transit (24% increase) and Kitsap Transit (15% increase). In 2004, Kitsap Transit has experienced a significant increase of approximately \$2.0 million, or 10%, in its operating cost, primarily due to increased operating costs related to salaries and wages, benefits and fuel. The increase at

Whatcom Transit has been traced preliminarily to the fact that 2003 was its first full year with maintenance "in-house"; previously it had contracted the work from the City of Bellingham.

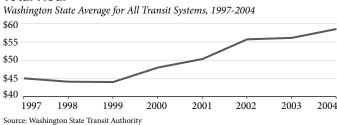
Among the rural systems, increases at Mason Transit (25%) and Jefferson Transit (97.7%) drove the increased numbers. During this time, Mason Transit's operations were being brought in-house from a private operator, requiring a duplication of costs for several months. Mason Transit also purchased a new operating facility and renovated it, incurring a number of one-time costs. Many of these costs were classified as operating rather than capital costs.

The average cost per hour for demand-response service increased slightly in 2004. The cost per hour has remained stable over several years despite inflationary pressure.

Fixed Route Service: Average Cost per Hour



Demand Response Services: Average Cost per Total Hour



Boardings per Revenue Hour

This measure also illustrates the importance of the characteristics of the area served on a transit system's performance. Boardings' per revenue hour generally depend on density and service type – local, urban service performs better than express service.

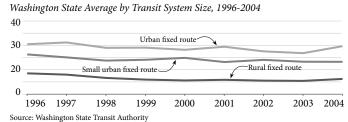
Boardings per revenue hour increased by over 10% for urban systems and over 6% for small urban systems. The increase for the urban category is driven by King County Metro, which experienced an increase of approximately 15% in boardings despite a reduction in revenue hours. In this same time, rural fixed-route ridership per hour increased slightly, and demand response ridership per hour dropped slightly. These changes are both fairly negligible.

Cost per Passenger Mile

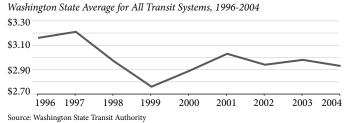
The trend for this measure generally reflects inflationary cost increases. The cost per passenger-mile increased sharply for small urban systems from 2000 to 2001, due to significant service reductions and fare increases in 2000 by several systems in this category. Passenger-mile data is not collected by rural transit systems.

The cost per passenger mile increased slightly for urban systems and appear to have increased for small urban systems². Since data is incomplete for the small urban figures, there is no analysis available yet to explain this increase.

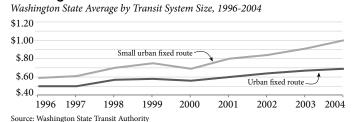
Fixed Route Service: Average Boardings per Revenue Hour



Demand Response Services: Average Boardings per Revenue Hour



Fixed Route Service: Average Cost per Passenger Mile



^{1&}quot;Boardings" are the total number of times a person boards the bus. For example, a person taking one bus and transferring to anothers bus to reach his destination would represent two boardings.

²The NTD did not have passenger-mile data for Ben Franklin Transit and Intercity Transit for 2004. The Small Urban number is a projected ratio based on the assumption that passenger miles would grow at the same rate as passengers from 2004 and 2003.

Cost per Boarding

Fixed Route Service

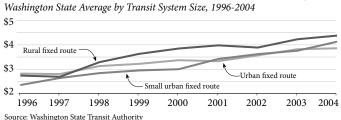
Cost per boarding has increased at approximately the rate of inflation for urban systems. Rural and small urban systems have seen the cost per boarding increase at a much higher rate. Small urban systems saw a significant increase from 2000-01 as service reductions increased the cost per hour of service and higher fares led to fewer passengers. This leveled off from 2001-02. Rural systems faced inflation also and were hit particularly hard by increased health care and other employee costs.

The 2004 cost per boarding increase was relatively modest across the three system size categories. Significant cost increases seen in the small urban category were partially offset by increased ridership.

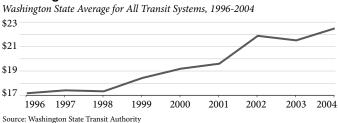
Demand Response

The cost per boarding is driven by two factors – the cost of providing service and the number of boardings. While the cost per hour of demand-response service has decreased slightly, this has been offset by a small but proportionately larger reduction in boardings per hour from 2003 (3.0) to 2004 (2.8). The net result is the cost per boarding has increased slightly.

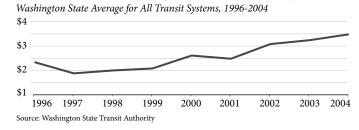
Fixed Route Service: Average Cost per Boarding



Demand Response Services: Average Cost per Boarding



Vanpool Service: Average Cost per Boarding



Highlights of Program Activities

Project Starts, Completions, or Updates

U.S. 2 Cashmere

Crews began work to pave approximately eight miles of U.S. 2 between Cashmere and Wenatchee on April 3. Repaving preserves the existing roadway structure and extends pavement service life for another 10-15 years. The project also includes safety improvements. Work is scheduled for campletion in June 2006.

I-405 Kirkland

WSDOT reopened the intersection of Totem Lake Boulevard and NE 128th Street to through traffic on March 30, more than three weeks ahead of schedule. Crews rebuilt the intersection, raising the elevation to meet the height of the new NE 128th bridge over I-405. WSDOT and Sound Transit are building HOV on and off-ramps in the I-405 median at NE 128th Street in the Totem Lake area of Kirkland. A new bridge at NE 128th Street will provide a new east-west route over the freeway in Kirkland.

SR 3 Silverdale

Work got under way at the Waaga Way intersection where SR 3 and SR 303 connect. The project will provide congestion relief and improve mobility for traffic movements between SR 3 and SR 303. The project also increases safety in the area by adding the direct connections between SR 3 and SR 303, eliminating highway traffic on Clear Creek Road, and reducing the number of turning conflicts at the existing intersections.

I-5 Woodland

On April 17, WSDOT began repair work on I-5 from I-205 to the North Fork Lewis River Bridge just south of Woodland. Crews will replace damaged concrete panels on I-5 and install dowel bars between panels to join them together. Originally constructed in the 1940s, this portion of I-5 has not seen major construction since the highway was widened to six lanes during the 1970s. This repair work includes grinding ruts in the pavement surface which will result in a smoother ride for motorists.

U.S. 97A Chelan County

Crews finished re-lining the Knapps Hill Tunnel with a concrete shell on April 12, one week ahead of schedule. This was the third of four phases of work to preserve and strengthen the tunnel between Wenatchee and Chelan. Project completion and reopening of the highway ended a six-mile long detour that had been in place since February 6.

SR 20 Whidbey Island

Project work wrapped up on Whidbey Island in late April on a section of SR 20 between Monkey Hill and Troxell Road. The safety project will reduce rear-end and run off the road accidents, and increase site distance, while relieving congestion at several key intersections. Crews widened the lanes and shoulders, improved intersections, and added new turn lanes. Work started in November 2005 and crews were able to work through the winter thanks to the rain shadow effect that the Island receives.



Crews finish paving SR 20 on Whidbey Island between Monkey Hill and Troxell Road.

I-5 Bellingham

Crews began to install five miles of new cable guardrail in the I-5 median between Old Fairhaven Parkway and Lakeway Drive, and between Sunset Drive and Bakerview Road in Whatcom County on April 24. This work is part of a larger \$8.8 million project to install approximately 70 miles of cable guardrail in eight counties and on nine separate highways across Washington to help prevent crossover and head-on collisions.

SR 24 Yakima

On April 28, crews shifted traffic from the existing SR 24 bridge to the newly constructed bridge over I-82, a major milestone in this project. When the project is finished, SR 24 will be a four-lane highway from I-82 to Riverside Road. The interchange will be reconstructed and wider bridges will be built over I-82 and the Yakima River. The end result will be the cure for one of the worst chokepoints in Yakima.

I-90 Easton

Work to repair and repave the deck of the eastbound I-90 Kachess River Bridge started May 7 and finished May 18, one day ahead of schedule. The project, located 19 miles east of the Snoqualmie Pass summit, provides a smoother ride across the river for eastbound I-90 motorists.

SR 512 Puyallup

WSDOT and Tucci & Sons Inc. began work on May 15 to pave SR 512 from 104th Street to SR 167. The project consists of repairing pavement, removing existing pavement from the Puyallup River Bridge and repaying with asphalt, and instal-

Highlights of Program Activities

lation of new traffic markings and signs. Safety enhancements will bring existing guardrail up to current standards. The \$2.3 million project is scheduled for completion in late June.

I-90 Spokane

On May 15, crews began a reconstruction project to smooth the ride for motorists on I-90 through downtown Spokane. Contractor crews will resurface the rutted pavement and install new expansion joints during the 2006 and 2007 summer construction seasons. Ruts up to two inches deep in all six lanes of the freeway are a safety hazard to the nearly 100,000 motorists that pass through downtown each day.



Aerial shot of I-90 through Downtown Spokane.

SR 161 Graham

Widening work is complete on SR 161 (Meridian Avenue) between 176th and 204th streets, north of Graham. Crews widened the highway from two lanes to four lanes with a center two-way left turn line. The project was built in two stages, with the southern portion, 204th Street to 234th Street, completed in 2005. The project improves traffic flow on four miles of highway and includes intersection and other safety improvements such as turn lanes and traffic signals at several locations.

SR 14 Vancouver

On May 1, crews began repairing the Lieser Road overpass over SR 14 in Vancouver. The project is divided into three phases – demolition, erecting and installing two new bridge girders, and repaving the bridge deck. The bridge was damaged in Novem-



Crews began repairing damage to the SR 14 Leiser Road Bridge in May. An oversize load hit the bridge in November 2005.

ber 2005 when an oversized truck carrying a crane hit the structure while traveling on SR 14. Since the damage occurred, the lane adjacent to the girder damage has been closed.

U.S. 2 Leavenworth

Crews began work on May 8 on a project to install centerline rumble strips, recessed pavement markers, and paint new stripes on 39 miles of U.S. 2. The project is designed to improve safety and reduce collisions. Contractor crews have finished installing rumble strips from Leavenworth west to Nason Creek. Work is continuing from the Nason Creek Rest Area west to about six miles from the Stevens Pass summit. The project was completed on June 5.

SR 285 North Wenatchee

Crews began a project on May 22 to pave 3.4 miles on two highways in the North Wenatchee vicinity. One section, SR 285 (Wenatchee Avenue), runs the length of the City of Wenatchee and is a busy commercial district. Paving and other improvements to the U.S. 2/97 Odabashian Bridge across the Columbia River on the north end of town was included in the SR 285 paving job, saving both money and time. The \$2.25 million project got under way May 22 and will be complete by September.

SR 543 Blaine

A ground breaking ceremony held on May 31 marked the start of operations to drill 1,000 shafts that will support a new D Street overpass and retaining walls on SR 543 in Blaine. Crews will lower the road near D Street for the overpass by 25 feet, removing enough dirt to cover two lanes of I-5 with soil ten feet deep for three miles. When this project is completed in 2008, drivers will see a wider, less congested, and safer SR 543 between I-5 and the border with Canada. WSDOT will convert SR 543 through Blaine into a five lane highway, including an overpass for local traffic and a designated northbound truck lane.

SR 20, SR 104, SR 116-Jefferson County

Crews will pave several state highways in Jefferson County this Summer. The project contractor will pave approximately six miles of SR 20, 13.5 miles of SR 104, and three miles of SR 116. The \$5.5 million project includes pavement repair, guardrail installation, permanent signing and striping, and sidewalk ramp construction in and near the community of Port Hadlock on SR 116. The project began May 30 and is expected to be completed by August 31, weather permitting.

Highlights of Program Activities

SR 202 Redmond

Eastside motorists are driving on a newly-widened SR 202 (Redmond Fall City Road). Crews finished work during the week of June 5, paving and striping the newly-widened roadway section between the SR 520 interchange and E. Lake Sammamish Parkway in Redmond. This is part of an \$84 million two-stage project that widens almost three miles of SR 202. This first stage of the project adds an additional lane in each direction between SR 520 and E. Lake Sammamish Parkway and improves the intersection of SR 202 and E. Lake Sammamish Parkway.

SR 501 & SR 503 Battle Ground

Crews began a paving project along portions of SR 501 and SR 503 in the Ridgefield and Battle Ground vicinity on June 15. The project will repave or repair portions of SR 501 (Pioneer Street), between Main Street and South 56th Place in Ridgefield. Paving work will also be completed on portions of SR 503 (NE Lewisville Highway) between Main Street and N.E. Rock Creek Road in Battle Ground.

I-90 Snoqualmie Pass

In mid-June, crews began work to stabilize rock slopes along I-90 east of Snoqualmie Pass near Easton. The first phase of the project includs building a temporary bypass road to provide two lanes in each direction. This allows room for drivers to pass through the work zone and at the same time prevent rock from spilling onto the roadway as crews work. Contractor crews will remove loose rocks and stabilize the slopes using bolts and protective fencing.

SR 165 Carbonado

In late June, crews started work on a project to repave a seven-mile section of SR 165. The project contractor will pave SR 165 from the community of Carbonado to the junction with SR 410 in Buckley. The project also realigns the SR 162 and SR 165 junction into a 'T' intersection. Work will last through the Summer.

SR 510 Lacev

A \$1.2 million project that provides for improvements on SR 510 between Sitka Street SE near Lacey and 93rd Avenue SE in Yelm started the week of June 19. The project includes paving two sections of SR 510 from Sitka Street in Lacey to Old Pacific Highway and from Fort Lewis Military Road to 93rd Avenue, totaling nearly seven miles. Work on the section of SR 510 between Old Pacific Highway and the boundary to the Nisqually Indian Reservation includes installation of centerline rumble strips and recessed pavement markers. Work is scheduled for completion in early August.

Announcements and Events

SR 20 North Cascades Highway

WSDOT crews opened the North Cascades Highway (SR 20) May 1, after six weeks of challenging and dangerous snow removal work. The North Cascades Highway is the northernmost pass across the Cascades in Washington. SR 20 had been closed since November 7.

SR 504 Mount St. Helens

WSDOT reopened Spirit Lake Memorial Highway (SR 504) to traffic beyond the Coldwater Ridge Visitor's Center on Friday, May 5. SR 504 east of Coldwater Ridge had been closed since December 2005 due to heavy snowfall.

SR 410 Chinook Pass Opened for the Season

WSDOT opened Chinook Pass on SR 410 to vehicle traffic May 25. Snow-clearing crews are finishing up snow removal on the west slope. Guardrail repairs, sign replacement, and lane striping work make up the remaining tasks prior to opening the pass. Snowfall was much greater than last year in the area; workers faced snow 25-30 feet deep in some places. WSDOT strives to open the pass before the Memorial Day weekend each year. A WSDOT contractor has repaired the damage to a section of the roadway from a 2005 washout.

SR 123 Mount Rainier

A road washout and rockslide in two separate locations delayed the annual reopening of SR 123 within Mount Rainier National Park until June 30. WSDOT maintenance crews discovered the washout last month while clearing snow two-miles south of the Cayuse Pass summit. WSDOT maintains SR 123 within park boundaries under an agreement with Mount Rainier National Park. Mount Rainier National Park is responsible for planning and funding highway improvements and repairs.

Ferries

WSDOT's Ferry System Presents Draft Long-Range Strategic Plan

Washington State Ferries completed its Draft Long-Range Strategic Plan for ferry system operations and investments through 2030. The final plan will guide the Ferry System investments and priorities over the next 25 years, and will become part of the statewide Washington Transportation Plan (WTP). The Ferry System held a series of public meetings in April and early May to explain the draft plan and gather comments from the public. The plan will be finalized this Summer.

Highlights of Program Activities

Ferry Ticket Kiosks Debut at Port Townsend and Keystone Terminals

The next phase of Washington State Ferries' new electronic ticketing system, called *Wave2Go*, was introduced the last week of May at both the Port Townsend and Keystone Terminals. Ticket kiosks will give customers new options to purchase tickets. The new system also provides a safe alternative for walk-on passengers. Walk-on passengers can purchase their tickets from a kiosk in the terminal, bypassing the vehicle tollbooth where they used to have to cross in front of vehicles to make a purchase. The next phase of the rollout of *Wave2Go* is an on-line ticketing store, which will allow our customers to purchase their tickets and print them at home. We hope to have this component of the system available in early Summer.

Aviation

Airport Grants Awarded

WSDOT's Aviation Local Airport Aid Grant Program has provided \$13.3 million for 39 different airport improvement projects in the state. Airport improvement projects slated for the 2005-07 biennium include improvements in pavement, safety, planning, maintenance, security, and runway safety. Pavement maintenance, which is the main focus of WSDOT's grant program, comprises about 78% of the planned projects. A total of 31 public-use airports in Washington will benefit from WSDOT's latest round of state, local, and federal grants awarded during the 2005-07 biennium. Of the \$13.3 million awarded, WSDOT used approximately \$1.8 million in state grants to fund the projects. WSDOT also used \$288,423 in state funds to leverage more than \$10.8 million in federal funds.

Stehekin State Airport Now Open

WSDOT Aviation has reopened Stehekin State Airport for the season. In cooperation with the National Parks Service North Cascades National Park, WSDOT has made some of the most dramatic improvements in the history of this state-operated airport. Located at the head of Lake Chelan, this state-operated airport offers spectacular scenery and is a favorite among pilots. Stehekin also provides crucial support for fire fighting, medical airlift, and other emergency services. This Winter, crews working for WSDOT removed trees within the airport boundary permit area to improve safety for pilots and their passengers. In October 2005, crews began grading and smoothing the entire length of the runway. Since then 500 pounds of grass seed has been applied and rolled into the runway surface. WSDOT has activated an irrigation system, which has helped

to keep the new grass growing. WSDOT has also installed a new windsock and will reinstall runway markers at Stehekin by the end of May 2006.

Improved Motorist/Project Information

Virtual Open House a First for WSDOT

After extensive analysis, WSDOT engineers identified a preferred design for widening I-90 at Snoqualmie Pass. On June 20, WSDOT hosted a virtual open house via the web at the Summit Inn at Snoqualmie Pass and invited anyone who has ever used I-90 or has an interest in construction at the pass to participate in the live webcast. Secretary of Transportation Doug MacDonald joined engineers as they talked about the plans for the \$387 million project to redesign I-90 at the pass with the goal to keep the critical road open 365 days a year. Members of the public watched the open house and emailed questions to the project team. This is a first for WSDOT. Given that I-90 is an interstate of regional and statewide significance, WSDOT felt it was important to allow anyone – from apple shippers in Eastern Washington to snow sports-enthusiasts in Western Washington to business owners in Idaho - to learn more about the future of this critical cross-state corridor.

Public Transit

WSDOT Announces Projects to Motivate Change in Commuting Habits

WSDOT recently selected 17 projects to receive over \$1.3 million in funding under the Trip Reduction Performance Program (TRPP). These projects will remove a combined total of 3,831 daily commute vehicle trips from the state highway system. The Washington State Legislature created the TRPP program in 2003 to encourage private companies, public agencies, developers, and property managers to provide services and incentives that get people out of their cars and onto buses, trains, vanpools, and other commute alternatives. For a list of projects selected for the 2005-07 TRPP, please visit: www.wsdot.wa.gov/tdm/program_summaries/trpp_projects_ 2005-2007.cfm

Americans with Disabilities Act (ADA) Information

Persons with disabilities may request this information be prepared and supplied in alternate formats by calling the Washington State Department of Transportation at (360) 705-7097. Persons who are deaf or hard of hearing may call access Washington State Telecommunications Relay Service by dialing 7-1-1 and asking to be connected to (360) 705-7097.

Civil Rights Act of 1964, Title VI Statement to Public

Washington State Department of Transportation (WSDOT) hereby gives public notice that it is the policy of the department to assure full compliance with Title VI of the Civil Rights Act of 1964, the Civil Rights Restoration Act of 1987, and related statutes and regulations in all programs and activities. Persons wishing information may call the WSDOT Office of Equal Opportunity at (360) 705-7098.

Other WSDOT Information Available

The Washington State Department of Transportation has a vast amount of traveler information available. Current traffic and weather information is available by dialing 5-1-1 from most phones. This automated telephone

system provides information on:
Puget Sound traffic conditions
Statewide construction impacts
Statewide incident information
Mountain pass conditions
Weather information
State ferry system information, and

Phone numbers for transit, passenger rail, airlines and travel information systems in adjacent states and for British Columbia.

For additional information about highway traffic flow and cameras, ferry routes and schedules, Amtrak *Cascades* rail, and other transportation operations, as well as WSDOT programs and projects, visit

www.wsdot.wa.gov

For this or a previous edition of the *Gray Notebook*, visit www.wsdot.wa.gov/accountability

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